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HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE
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FORT BENNING, GEORGIA 31906-6000

REPLY TO
ATTENTION OF

19 MAR 2013

ATZK-TD

MEMORANDUM FOR RECORD

SUBJECT: Family of Weapon Sights (FWS) System Training Plan (STRAP)

1. References:

- a. TRADOC Regulation 350-70, Army Learning Policy and Systems, 6 December 2011.
- b. Capability Development Document (CDD) for the FWS, September 2011.
- c. Army Regulation 350-1, Army Training and Leader Development, 18 December 2009.

2. I hereby approve the FWS STRAP. A copy of this STRAP will be posted to the Central Army Registry within 30 days of the approval date.

3. Point of contact is Mr. Ron Shoemaker, Systems Training Branch, Training Development Division, Directorate of Training and Doctrine at DSN 835-4989, Com (706) 544-4989, or e-mail ron.e.shoemaker.ctr@mail.mil.

H. R. MCMASTER
Major General, USA
Commanding

Family of Weapon Sights
(Version 0.2)

Date: 2013-02-20
MCoE - Infantry & Armor Schools

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This System Training Plan (STRAP) is preliminary. Front-end analysis (mission, task, and job) is ongoing. MCoE - Infantry & Armor Schools will amend and update this STRAP as details solidify.

MCoE - Infantry & Armor Schools are the proponents for this STRAP. Send comments and recommendations directly to: Ron Shoemaker

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1.0 System Description

a. The fielding of all family of weapon sights (FWS) shall increase lethality and improve situational awareness by extending the range a war fighter can recognize potential targets. The FWS, used in conjunction with small arms weapons, shall ensure that commanders in the field have constant rapid lethal firepower. The FWS shall have a reduced size, weight and power from the legacy thermal weapon sights (TWS), while providing rapid target acquisition (RTA) and improved resolution over greater ranges.

- The FWS-Individual (FWSI) variant shall be used on the M4 Carbine, M16A2/M16A4 Rifle, M249 Squad Automatic Weapon (SAW), M136 AT4, and M141 Bunker Defeat Munitions and offer an RTA capability, in-line night sight capability and a stand-alone sight. This shall enable its use without having to remove the day sight, therefore allowing the same aiming tactics, techniques and procedures (TTPs) and eliminating the need for re-zero. The RTA capability enables rapid offensive targeting by reducing target acquisition and engagement timelines. The FWSI shall benefit the force by increased speed to engagements during close quarters battle type engagements without the use of active lasers.
- The FWS-Crew Serve (FWSCS) variant shall offer a night sight capability that mounts on the weapon in place of, or in-line with, the day sight without having to re-zero following detaching and reattaching to the same weapon. It shall be configured as a fused sight with a low light level and a thermal sensor. A head-mounted display (HMD) shall be included to allow for proper firing techniques of the M240 Medium Machine Gun, M2 Heavy Machine Gun, MK19 Grenade Launcher, and MK47 Automatic Grenade Launcher. The HMD eliminates the need to obtain eye relief with an optic when firing heavy automatic weapons.
- The FWS-Sniper (FWSS) variant shall be used in a clip-on mode in front of the day view optic for all sniper systems (M24, M110, and M107). The current systems are image intensifiers (I^2) and do not allow for long distance viewing. With the use of thermal imaging, we can achieve distances needed for the sniper mission. Repeatability when removing and reinstalling the FWSS shall allow the sniper to use with confidence of zero retention without removing the day view optic.

b. First Unit Equipped (FUE) Date. 1Q2015

2.0 Target Audience

The target audience includes the operators of the weapons systems cited in the following paragraphs. The target audience for the unit trainer is SGT and above.

The FWS will be used by all brigade combat team (BCT) military occupational specialties (MOS) who are assigned the M16A4/M4 rifle/carbine, M249 SAW, M240 medium machine gun, MK 19 grenade launcher, or M-2 heavy machine gun. Those MOSs include 11B, 11C, 19D, 25U, 31B, 35F, 42A, 52D, 63B, 63H, 63J, 63M, 68W, 74D, 88M, 92A, 92F, 92G, and 92Y. The MOS for the unit armor is 91F.

The FWS will be issued to heavy (BCT), infantry (BCT), stryker (BCT); 3d armored cavalry regiment; FWSI 18 per platoon; FWSCS one per M240, M2 and MK19; FWSS one per sniper team. The FWS shall be issued to the USA special forces command, special warfare center, and 75th ranger regiment; FWSI at a rate of one per operational detachment A and B team member; FWSCS one per M240, M2, MK19, and MK47 weapons system; FWSS one per sniper weapon system. The current variants of TWS in the BCTs and special operations command shall be cascaded to functional and multifunctional brigades in accordance with army forces generation cycles. This basis of issue plan is to provide organic capability to mounted and dismounted forces that must acquire and provide target recognition and far target location in all climates and battlefield conditions during both limited visibility and night missions.

3.0 Assumptions

- a. Manpower. No increase in total force structure will be required by the introduction of the FWS.
- b. Doctrine. FWS will not affect doctrine.
- c. Training. Training will not require skills, knowledge, or attributes greater than those required by the MOS and skill level of Soldiers employing, operating, or maintaining this piece of equipment.
- d. Personnel. Additional instructors may be required in the generating force due to an increase in training time (about 4 hours) in the program of instruction (POI). No new MOSs or additional skill identifiers will be required for operators or maintainers.
- e. Ammunition. Program manager-Soldier maneuver sensors (PM-SMS) will POM for training ammunition that will be required during new equipment training (NET).
- f. Funding. The materiel developer will resource and fund all NET requirements to support the operational test (OT), and field the generating and operating force.
- g. Training aids, devices, simulators, and simulations (TADSS). FWS will require integration into the engagement skills trainer 2000 (EST 2000, I² only), close

combat tactical trainer-dismounted Soldier training system (CCTT-DSTS), and virtual battlespace II.

h. Facilities. No change

4.0 Training Constraints

a. Funding availability. Total life-cycle costs (LCC) for the FWS will include \$19.439M for research, development, testing and evaluation, \$346.803M for procurement, and \$10.521M for operations and maintenance. At present, \$11.894M of the total is an unfunded requirement.

b. TADSS compatibility. New development of TADDS will not be required.

c. System availability for generating force. BCTs will be fielded FWS first. Therefore, generating force locations will not be able to train with the FWS until sufficient quantities are produced to fill their training need.

d. Instructor availability. Due to the evolutionary acquisition strategy for FWS, army units will initially be required to maintain two different types of night sights. Therefore, generating force instructors will have to instruct on multiple night sight systems. Additionally, introduction of FWS into the generating force will require that additional training time be added to POIs. Therefore, additional instructor personnel may be required.

5.0 System Training Concept

a. FWS training will consist of NET using the "train-the-trainer" method. BCTs will receive training first based on their deployment schedule. Generating force NET will be completed based on the master fielding plan (MFP). Generating force locations will train initial entry Soldiers on operation and will train leader courses on capabilities and employment. Units scheduled for fielding of the FWS will receive all equipment and training materials prior to or during NET. Stay-behind packages are the responsibility of the PM and will remain with the unit by the NET team. Maintenance training will be conducted for MOS 91F. Direct support maintenance of the FWS will be completed using contractor logistics support (CLS) contracts or organic maintenance.

b. The capabilities production document (CPD) authorized a computer-based trainer, interactive multimedia instruction (IMI), EST 2000 Compatible, combat training center implementation and Interface requirements, and integration into the CCTT-DSTS prior to the material solution. Now that the material solution has been identified, only the I² portion of the FWS must be compatible with the EST 2000. The FWS will have to be incorporated into the CCTT-DSTS and an IMI will need to be developed.

c. Training by the generating force will be added to MOS-specific initial military training (IMT) and professional military education, if the task using the equipment is on the approved critical task list, and as taught within an institutional training course. If taught by the unit, the training support packages (TSPs) developed for NET will be used.

5.1 New Equipment Training Concept (NET)

a. NET will be conducted by PM-SMS provided contractors who have been certified by the maneuver center of excellence (MCoE) and combined arms support command (CASCOM) on the maintenance and operation of the FWS. Development of the NET plan (NETP) is the responsibility of PM-SMS. TSPs, stay-behind packages and other appropriate training materials/manuals will be developed by PM-SMS and reviewed/approved by united states army infantry school (USAIS) and MCoE DOTD. NET will be scheduled to coincide with fielding of the FWS. NET will qualify unit trainers to safely operate and employ the FWS and train MOS 91F to perform limited maintenance at the unit level. Unit-level maintenance will consist of replacement of knobs, and so forth, according to the applicable technical manual (TM). FWS qualification/certification of unit trainers will require an estimated 8 hours of training. FWS-qualified unit trainers will teach Soldiers how to operate the system during sustainment training and during operating force operations. NET trainers will conduct training according to the TSP created and validated by the USAIS, MCoE directorate of training and doctrine (DOTD), and CASCOM during pretest training certification in support of the OT. The target audience for the unit trainer is SGT and above.

b. NET Plan (NETP): TBD

- "Train-the-trainer" will be the process for NET. Instructors from the infantry proponent, 2d battalion, 29th infantry or contractors will qualify generating force trainers on operation and maintenance of the FWS, with oversight of the DOTD. The training will consist of classroom instruction, practical exercise (PE), individual PE evaluation per Soldier, and a written test. The NET will offer training to all generating and operating force trainers being fielded with the FWS. PM-SSL will ensure the equipment and resources arrive prior to the start of training. All trainers will use the TSP that was validated during the OT for this piece of equipment.
- Maintenance training will be accomplished by the material developer and by specific proponent schools with appropriate tool kit and resources provided by PM-SSL. Specific maintenance tasks will be limited to eyecup, lanyard, knob, and lens cover replacement.
- NET Team Organization and Deployment. The NET team is contracted out by PM-SSL and will train the operation and maintenance TSP validated during the OT pretest

training. PM-SSL has funded a basic NET team and an advanced NET team. Basic NET will train the initial operator and maintenance training. Advanced NET will train the full suite of optics and lasers fielded by PM-SSL collectively based on what the individual units have been fielded. This training includes boresighting, zeroing and firing live rounds on ranges and short range training ammunition in shoot houses when available.

c. Generating force training will be conducted to train qualified instructors to train the FWS to initial military training. (The FWS training must be implemented into the generating force within one year after FUE to familiarize all generating force instructors with the FWS.) Operator training hours may have to be added (~4 hours) to the existing POI, because the FWS will replace only a portion of the current thermal weapon sights, requiring the simultaneous operator training of both systems.

d. Maintenance Training. PM-SMS will assist the prime contractor on maintenance during the system development and demonstration (SDD) phase. The MD will use the maintenance materials provided by the contractor from instructor and key personnel training and knowledge gained from SDD as a baseline for developing the TSP for NET. During the OT and prior to FUE, the contractor will update the individual critical task analysis, revise the TSPs, and input them into the training development capability (TDC) format, and then prepare for introduction to the Army Training Information Architecture-Migrated. After OT and prior to FUE, CASCOM will provide TSPs appropriate for NET, generating and operating force-training, and sustainment training to Training and Doctrine Command (TRADOC). Maintenance training hours may have to be added to the existing POI, because other versions of thermal weapon sights will be in the field, requiring the simultaneous maintenance training of these systems.

5.2 Displaced Equipment Training (DET)

The FWS will replace all first generation thermal weapon sights to include AN/PAS-13, 13A, and 13B. Displaced equipment will be cascaded at the direction of the Department of Army (G-8).

5.3 Doctrine and Tactics Training (DTT)

The FWS will not require a change to DTT.

5.4 Training Test Support Package (TTSP)

The training developer and the training development division (TDD) from MCoE coordinate all deliverables from the MD and submit the TTSP to the U.S. Army Test & Evaluation Command according to timelines provided by TRADOC Regulation 350-70. The TTSP will be validated during the initial operational test and evaluation. As applicable, the TTSP contains:

- POI for each affected MOS/SSI/AOC (officer, warrant officer, and enlisted).
- List of training devices and embedded training components.
- Ammunition, targets, and ranges for training.
- Target audience description.
- Draft soldier training publications (STPs) or changes.
- Lesson plans.
- Critical task list.
- Field manuals (FM) or changes to FMs (when not provided with the Doctrine and Organization Test Package).

6.0 Institutional Training Domain

Generating force training will consist of operator, leader, and maintenance (MOS 91F) training. Individual tasks will be trained to both the Active and Reserve Component. There will be no difference in the training content between Active and Reserve Components.

6.1 Institutional Training Concept and Strategy

Training for the FWS in the institution will consist of programmed instruction, traditional training and small group instruction for operators, leaders, and repair personnel (MOS 91F). Both IMT and professional development courses, and unit-level maintenance training will be conducted using a mix of conventional training methods and the army learning model methods. FWS capabilities and employment will be introduced in leader/professional development courses. PM-SMS will ensure that the initial transfer of knowledge from the contractor to school takes place. This will happen via instructor and key personnel training using the tenets of TRADOC Regulation 350-70. This course will take place at mutually agreed upon sites. Field-level maintenance training will be conducted at United States army ordnance mechanical maintenance school.

6.1.1 Product Lines

The MCoE training developer will develop the TTSP. Initial military training and professional military education courses will be supported by this TTSP and incorporated into the current curricula. The training developer will update

appropriate training publications. The MCoE DOTD training developer will develop the TSPs supporting individual tasks.

6.1.1.1 Training Information Infrastructure

The contractor will develop a TM in the logistics support activity (LOGSA) interactive electronic TM (IETM) format and a hard copy will be provided with each FWS system. The TSP will be stored in TDC and the central army registry (CAR).

6.1.1.1.1 Hardware, Software, and Communications Systems

- TDC database.
- CAR.

6.1.1.1.2 Storage, Retrieval, and Delivery

- TDC - POI and lesson plan.
- CAR - Training class, PE, PE evaluation, and written test.
- Army Modernization Training Automation System (AMTAS) - NET plan.
- Center army lessons learned (CALL) repository - Update training to address lessons learned.

6.1.1.1.3 Management Capabilities

- TDC - POI and lesson plan.
- Digital training management system (DTMS) - Allocate seats for courses.
- CAR - Training materials.

6.1.1.1.4 Other Enabling Capabilities

Not applicable.

6.1.1.2 Training Products

- The PM will provide an operators manual that will provide the operator instructions on system operations and operator-level maintenance of this system. The PM will ensure that a task analysis is conducted on the system to determine the tasks required to operate and maintain the system in conjunction with the MCoE DOTD training developer.
- A major part of this systems training is the TSP. It will contain the full spectrum of training support products as required by TRADOC Regulation 350-70 and combined arms training strategy (CATS) to support training. The PM-SSL will develop training materials that will conform to Army design standards, and they will be sharable content object reference model (SCORM) compliant, if necessary.

6.1.1.2.1 Courseware

Training materials will be created by the materiel developer in conjunction with PM-SMS, USAIS, and MCOE DOTD as part of the TSP.

6.1.1.2.2 Courses

Institutional training of the FWS will be integrated into the Infantry/Engineer/Armor advanced leader course and basic officer leadership courses. Training will focus on operation, maintenance, and employment. The training products developed by the proponent will be available to other schools.

6.1.1.2.3 Training Publications

Hard copy and digital publications will include TMs, quick reference card, TSPs, and STPs. The qualification strategy will be developed by the USAIS in coordination with MCoE DOTD and incorporated into the appropriate marksmanship manuals (FMs 3-22.9, 3-22.68, and 3-22.10, and 3-22.65; and TM 3-22-31). Updated publications will be available from PM-SSL, the CAR, and the TRADOC publications website. MCoE and CASCOM will maintain the TSPs. A TM will be created and stored on the LOGSA IETM web site for download, a hard copy will accompany the FWS, and the TSP will be stored in the CAR.

6.1.1.2.4 Training Support Package (TSP)

TSPs will be developed according to TRADOC Regulation 350-70. The TSP will be available to other proponent centers of excellence for use in branch-specific training.

6.1.1.3 TADSS

- Multiple integrated laser engagement system (MILES) and instrumental MILES (IMILES). FWS must be fully compatible with MILES and IMILES.
- EST 2000. It is understood that the current technology does not support thermal optic compatibility cost effectively. However, when cost-effective technology becomes available the FWS will be incorporated.
- The FWS will be integrated into the CCTT-DSTS, which will require software to be generated.
- Games for Training. FWS will be integrated into the current games for training software.
- An IMI will be developed to support the FWS.

6.1.1.3.1 Training Aids

No training aids are required to support training of the FWS.

6.1.1.3.2 Training Devices

Tactical Engagement Simulations Systems (TESS). FWS is expected to be fully compatible with MILES and IMILES.

6.1.1.3.3 Simulators

- Currently, technology restraints and cost prevent the FWS thermal capability from being compatible with the EST 2000. If technology becomes available to allow a cost-effective means of implementing FWS' thermal capability into EST 2000, it will be implemented.
- The FWS will be integrated into the CCTT-DSTS by Program Manager-Combined Arms Tactical Trainer (PM-CATT).
- The FWS will be fully compatible with the legacy and updated versions of MILES and IMILES.

6.1.1.3.4 Simulations

FWS will be replicated in VBS2 and the follow-on game application for battalion and below size simulations. For constructive simulations, detection ranges for dismounted units will reflect the improvements attained by units equipped with FWS. FWS will be integrated into the integrated training environment (ITE) in each of the simulation environments live, virtual, constructive, and gaming (LVC-G). program executive office (PEO)-Soldier systems will provide the data for requirement generation to training and doctrine capability manager (TCM) - gaming in order for replication of FWS in gaming products for battalion and below simulations, such as VBS2.

6.1.1.3.5 Instrumentation

Not applicable.

6.1.1.4 Training Facilities and Land

The FWS will require qualification and maneuver ranges to have thermal targetry.

6.1.1.4.1 Ranges

The FWS will require thermal capability on all applicable qualification and maneuver ranges. Army training support command (ATSC) in conjunction with TCM-Live has funded thermal integration into all ranges when the ranges are scheduled to be updated.

6.1.1.4.2 Maneuver Training Areas (MTA)

Thermal capability will be required. ATSC in conjunction with TCM-Live has funded thermal integration into all ranges when the ranges are scheduled to be updated.

6.1.1.4.3 Classrooms

Additional classrooms will not be required with the fielding of FWS.

6.1.1.4.4 Combat Training Centers (CTCs)

- Thermal capability will be required. ATSC in conjunction with TCM-Live has funded thermal integration into all ranges when the ranges are scheduled to be updated.
- Combat training center (CTC) instrumentation and interface requirements. PM-SMS is responsible to ensure that the FWS is compatible and does not interfere with IMILES used at the maneuver CTCs. All live, virtual, and constructive capabilities of the FWS will be evaluated for integration into the mission command training program and CTC instrumentation. With regards to force-on force training at the maneuver CTCs, PM-SMS will evaluate the resources required to provide the CTCs the means to validate the ability of units to employ within the force and mission rehearsal needs. The final determination for integration will be the responsibility of the MCoE.

6.1.1.4.5 Logistics Support Areas

Additional logistics support areas will not be required with the fielding of FWS.

6.1.1.4.6 Battle Command Training Centers (BCTC)

FWS will not be used at BCTCs.

6.1.1.5 Training Services

FWS will require training services as outlined below. Coordination of these services is the responsibility of PM-SMS.

6.1.1.5.1 Management Support Services

- Information management service - storage of POI and lesson plan.
- Courseware management service - multimedia courseware management.
- Devices management service - TESS management.
- Requirements management services - training ammunition as detailed by standards in training commission.

6.1.1.5.2 Acquisition Support Services

- Development of all training products and instructors for NET will require contract management services.
- The management decision package for PM-SSL will provide funds for these efforts.

6.1.1.5.3 General Support Services

Distribution and replication services will be required.

6.1.2 Architectures and Standards Component

The institutional architecture begins with the NET TSP developed by the training developer in conjunction with PM-SMS. The NET TSP contains instruction on performing operator and maintainer tasks on the FWS, as well as any TTP developed by the institution's combat developer/training developer, associated with the employment of the FWS. The NET TSP is handed off to the institution where the DOTD provides the package to their TDD for refinement and development of the training support systems used in the institution. The TDD will use the NET TSP to revise existing POIs. The STPs will be developed, given to the distributed learning element for media formatting, and then made available for self-development training. Collective training products will be developed or updated incorporating TTPs. Doctrine writers will incorporate the developed TTPs in the updates to doctrinal manuals.

6.1.2.1 Operational View (OV)

Not applicable.

6.1.2.2 Systems View (SV)

FWS is an optic and does not exchange or transmit data.

6.1.2.3 Technical View (TV)

FWS is an optic and does not exchange or transmit data.

6.1.3 Management, Evaluation, and Resource (MER) Processes Component

FWS will be maintained by CLS personnel under contract to PM-SMS. CLS will include site management, operations and operating force coordination, system instruction, and support to after action reviews, systems maintenance, and logistical support.

6.1.3.1 Management

- Management of the FWS will remain the responsibility of PM-SMS throughout its life cycle.
- Management of TSS products will transfer to DOTD upon completion of NET.

6.1.3.1.1 Strategic Planning

FWS will require a fielding plan and basis of issue plan to field to the generating force.

6.1.3.1.2 Concept Development and Experimentation (CD&E)

CD&E associated with FWS will be funded by PM-SMS.

6.1.3.1.3 Research and Studies

Doctrine, organization, training, materiel, leadership and education, personnel and facilities (DOTMLPF) analysis was conducted during the joint capabilities integration and development system (JCIDS) process.

6.1.3.1.4 Policy and Guidance

- Army regulation (AR) 350-1, Army Training and Leader Development.
- TRADOC regulation 350-70, Army Learning Policy and Systems.
- TP 525-8-2, Army Learning Concept 2015.

6.1.3.1.5 Requirements Generation

- JCIDS process (initial capability document (ICD), capability development document (CDD), and CPD).
- System training plan (STRAP).
- TSP.

6.1.3.1.6 Synchronization

MFP will serve as the single stand-alone document containing the detailed plans and actions the fielding and gaining unit commands will accomplish to successfully field and deploy the FWS. Initial fielding will be based on deployment schedule of receiving BCTs.

6.1.3.1.7 Joint Training Support

Not applicable.

6.1.3.2 Evaluation

- Equipment deficiency report is available in the TM for units to address deficiencies and to make recommendations.
- Post combat surveys.
- MCoE will conduct periodic inspections of training at fielding sites to ensure effectiveness.

6.1.3.2.1 Quality Assurance (QA)

QA will be conducted according to each installation's QA plan. Each QA Office will use proven techniques to determine the quality of training provided by the institution. External evaluations will focus on the use of tasks trained, the proper application of those tasks, and identification of tasks not trained but needed. Internal evaluations will focus on the presentation of the tasks at the institution, the course content, and the material used by the instructor.

6.1.3.2.2 Assessments

The MCoE DOTD will assess the FWS training program one year after training is implemented. The assessment will evaluate the effectiveness and efficiency at all CoEs, identify changes to increase unit training proficiency, and resolve generating and operating force standardization issues.

6.1.3.2.3 Customer Feedback

- Electronic media for surveys help desks, and collaborations.
- Interviews/questionnaires.
- Post combat surveys.

6.1.3.2.4 Lessons Learned/After-Action Reviews (AARs)

MCoE DOTD will leverage the CALL database for new TTPs as well as conduct face-to-face interviews with units/individuals returning from theater to ensure training programs and instruction remain relevant.

6.1.3.3 Resource

PM-SSL is responsible for all funding to support training, development, NET, and associated training products to include TADSS. Funding is outlined below. Management of the FWS will remain the responsibility of PM-SMS throughout its life cycle. Management of TSS products will transfer to DOTD, TDD, and Doctrine upon completion of NET.

Proposed procurement, operations, and maintenance army plan FY10 through 15 by cost for initially fielded units.

FWSI	Total	2011	2012	2013	2014
FIELDING	\$3,543.	\$655.	\$462.	\$1,197.	\$1,227.
Initial Fielding	\$720.	\$655.	\$63.		
Spares					
NET	\$1,496.400		\$211.500	\$634.500	\$650.400
NET - Ammunition	\$1,326.874		\$187.544	\$562.632	\$576.698
Then Year (\$K)					
Total RDT&E:	\$1,000.196				
Total Procurement:	\$62,269.236				
Total O&S:	\$30,170.629				
Total Program LCC Requirement	\$93,440.061				

Items Resourced	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17
New Equipment Training						
Contractor	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY
Contract/Spt	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
Trvl/Per Diem	\$40K	\$40K	\$40K	\$45K	\$50K	\$50K
Classrooms	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
Equipment	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
AC/DC Power	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
Printing	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Other						
Rationale: Classrooms suitable for twelve students with standard electrical power are required for NET.						
Training Products						
Training Pubs			0.2MY	0.2MY	0.2MY	0.2MY
TSP			0.2MY	0.2MY	0.2MY	0.2MY
IMI			0.2MY	0.2MY	0.2MY	0.2MY
ETM	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
STP	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
IETM	\$40K	\$40K	\$40K	\$45K	\$50K	\$50K
ARTEP/MTP	0.1MY	0.1MY	0.1MY	0.1MY	0.1MY	0.1MY
Printing	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Distribution	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Rationale: Cost to develop, revise, maintain, and distribute Training Products. Includes cost to develop TSP that will be used for NET, institutional, operational, and self-development domains.						
TADSS						
Simulators	0.6K	0.6K	0.8K	0.7K	0.6K	0.5K
Simulations	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
GTA	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Software	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Trng Equip*	0.6K	0.6K	0.9K	0.9K	0.8K	0.7K
Equipment	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Printing	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Shipment	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Sustainment	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K

Rationale: Cost to procure and sustain TADSS. Includes cost to develop and maintain a simulator for institutional training. Also includes the cost to procure and maintain actual systems for training use. Twelve actual operational systems are required for use as training devices.

*Actual item of equipment used for training which does not lose its identity as an end item for operational purposes.

Facilities/Land

Facilities	0.6K	0.6K	0.8K	0.7K	0.6K	0.5K
Land	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Site Surveys	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Concrete Pad	0.6K	0.6K	0.8K	0.7K	0.6K	0.5K
AC/DC Power	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Equipment	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Maintenance	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Other	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K

Rationale: Cost to modify existing facilities to accommodate new power and shielding requirements of new system Concrete pad and electrical power needed to operate simulator.

Training Services/TII

LMS	0.6K	0.6K	0.8K	0.7K	0.6K	0.5K
Services	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Servers	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Licenses	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
IT Support	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
Other	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K

Rationale: Software license and IT support will be required.

Eval/QA

Contractor	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY
Civilian	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY
Enlisted			0.2MY	0.2MY	0.2MY	0.2MY
Warrant			0.2MY	0.2MY	0.2MY	0.2MY
Officer			0.2MY	0.2MY	0.2MY	0.2MY
Contract/Spt	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
Civ Pay	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K

Trvl/Per Diem	\$40K	\$40K	\$40K	\$45K	\$50K	\$50K
Facilities	\$100K	\$100K	\$100K	\$100K	\$100K	\$100K
Equipment	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
Printing	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
TEA	\$100K	\$100K	\$100K	\$100K	\$100K	\$100K
PFTEA	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K

7.0 Operational Training Domain

- A TM will be shipped with the FWS, which will include all necessary operating and maintenance tasks.
- NET will be offered to all units being fielded. A TSP will remain with the unit and be available online via the CAR with a link in the army training network (ATN).
- Operating forces will maintain individual and collective proficiency by scheduling training in accordance with operating force CATS to include employment of FWS at CTCs.

7.1 Operational Training Concept and Strategy

The NET team will train units and leave a FWS TSP upon completion. The unit is then responsible for sustaining individual and collective proficiency with the FWS, as well as the training of new FWS operators. This will be accomplished via maneuver training rotations and home station training. To ensure this is accomplished, the training developers and unit commanders will integrate sustainment training requirements into their unit CATS. TSPs will be maintained by MCoE and made available via TDC, CAR, ATN, CALL repository, and AMTAS.

7.1.1 Product Lines

- STPs.
- TSP for individual training.

7.1.1.1 Training Information Infrastructure

The contractor will develop a TM in the LOGSA IETM format, and a hard copy will be provided with each FWS system. The TSP will be stored in TDC, CAR and ATN.

7.1.1.1.1 Hardware, Software, and Communications Systems

- TDC - POI and lesson plan.
- AMTAS - NET plan.
- DTMS - Allocate seats for courses.
- CAR/ATN - Training materials.
- CALL Repository - Update training to address lessons learned.

7.1.1.1.2 Storage, Retrieval, and Delivery

- TDC - POI and lesson plan.
- AMTAS - NET plan.
- DTMS - Allocate seats for courses.
- CAR/ATN - Training class, PE, PE evaluation, and written test.
- CALL Repository - Update training to address lessons learned.

7.1.1.1.3 Management Capabilities

- TDC - POI and lesson plan.
- AMTAS - NET plan.
- DTMS - Allocate seats for courses.
- CAR/ATN - Training class, PE, PE evaluation, and written test.
- CALL Repository - Update training to address lessons learned.

7.1.1.1.4 Other Enabling Capabilities

Not applicable.

7.1.1.2 Training Products

- PM-SMS will provide an operator's manual that will provide the operator with instructions on system operations and operator-level maintenance. PM-SMS will ensure that a task analysis is conducted on the system to determine the tasks required to operate and maintain the system in conjunction with the MCoE DOTD training developer.
- A major part of this systems training is the TSP. It will contain the full spectrum of training support products as required by TRADOC Regulation 350-70 and CATS to support training. The PM-SSL will develop training materials that will conform to army design standards and be SCORM compliant.

7.1.1.2.1 Courseware

Training materials will be created by the materiel developer in conjunction with USAIS and MCoE DOTD as part of the TSP.

7.1.1.2.2 Courses

- Infantry/Engineer/Armor advanced leader course.
- Infantry/Engineer/Armor basic officers leaders course.

7.1.1.2.3 Training Publications

Hard copy and digital publications will include TMs, quick reference card, TSP, and STPs. The qualification strategy will be developed by USAIS in coordination with DOTD and incorporated into the appropriate marksmanship manual (FMs 3-22.9, 3-22.68, 3-22.10, and 3-22.65; and TM 3-22-31). Updated publications will be available from PM-SMS, CAR, ATN and the TRADOC publications web site. MCoE and

CASCOM will maintain the TSPs. A TM will be created and stored on the LOGSA IETM web site for download. A hard copy will accompany the FWS, and the TSP will be stored in the CAR with a link in ATN.

7.1.1.2.4 TSP

TSPs will be developed according to TRADOC regulation 350-70. The TSP will be made available to other proponent centers of excellence for use in branch-specific training.

7.1.1.3 TADSS

- MILES and IMILES. FWS must be fully compatible with MILES and IMILES.
- EST 2000. It is understood that the current technology does not support thermal compatibility cost effectively, but if technology becomes available that is cost effective, then the FWS would be expected to be incorporated.
- The FWS will be integrated into the CCTT-DSTS when a materiel solution is developed, which will require mockup systems and software generated.
- Games for training. FWS will be integrated into the current games for training software.

7.1.1.3.1 Training Aids

No training aids are required to support initial or sustainment training of the FWS.

7.1.1.3.2 Training Devices

Tactical Engagement Simulations Systems. FWS is expected to be fully compatible with MILES and IMILES.

7.1.1.3.3 Simulators

- Technology restraints and costs prevent the FWS thermal capability from being compatible with the EST 2000. However, when technology becomes available and supports a cost-effective means of implementing FWS' thermal capability into EST 2000, it will be implemented.
- The FWS will be integrated into the CCTT-DSTS by PM-CATT.
- The FWS will be fully compatible with the legacy and updated versions of MILES and IMILES.

7.1.1.3.4 Simulations

FWS will be replicated in VBS2 and the follow-on game application for battalion and below size simulations. For constructive simulations, detection ranges for dismounted units will reflect the improvements attained by units equipped with FWS. FWS will be integrated into the ITE in each of the simulation environments LVC-G. PEO Soldier systems division provides requirements generation data to

TCM-Gaming to ensure FWS capabilities are accurately replicated in all battalion and below simulations gaming products, such as VBS2.

7.1.1.3.5 Instrumentation

FWS will be compatible with home station instrumentation training system, deployed and maneuver combat training center instrumentation systems; common training instrumentation architecture.

7.1.1.4 Training Facilities and Land

The FWS will require qualification and maneuver ranges to have thermal targetry. ATSC in conjunction with TCM-Live has funded thermal integration into all ranges when the ranges are scheduled to be updated.

7.1.1.4.1 Ranges

The FWS will require thermal capability on all applicable qualification and maneuver ranges. ATSC in conjunction with TCM-Live has funded thermal integration into all ranges when the ranges are scheduled to be updated.

7.1.1.4.2 Maneuver Training Areas (MTA)

Thermal capability will be required. ATSC in conjunction with TCM-Live has funded thermal integration into all ranges when the ranges are scheduled to be updated.

7.1.1.4.3 Classrooms

Additional classrooms will not be required with the fielding of FWS.

7.1.1.4.4 CTCs

Thermal capability will be required. ATSC in conjunction with TCM-Live has funded thermal integration into all ranges when the ranges are scheduled to be updated.

7.1.1.4.5 Logistics Support Areas

Additional logistics support areas will not be required with the fielding of FWS.

7.1.1.4.6 Battle Command Training Centers (BCTC)

FWS will not be used at BCTCs.

7.1.1.5 Training Services

FWS will require training services as outlined below. Coordination of these services is the responsibility of PM-SMS.

7.1.1.5.1 Management Support Services

- Information management service - storage of POI and lesson plan.
- Courseware management service - multimedia courseware management.
- Devices management service - tactical engagement simulation system management.
- Requirements management services - training ammunition as detailed by standards

in training commission.

7.1.1.5.2 Acquisition Support Services

- Development of all training instruction products and instructors for NET will require contract management services.
- The management decision package for PM-SMS will provide funds for these efforts.

7.1.1.5.3 General Support Services

FWS will require distribution and replication services.

7.1.2 Architectures and Standards Component

The NET TSP is developed by the training developer in conjunction with PM-SMS. The NET TSP contains instruction on performing operator and maintainer tasks on the FWS, as well as any TTP developed by the institution's combat developer/training developer associated with the employment of the FWS. The NET TSP is handed off to the institution where the DOTD provides the package to their TDD for refinement and development of the training support systems used in the institution. The TDD will use the NET TSP to revise existing POIs. The STPs will be developed, given to the distributed learning element for media formatting, and then made available for self-development training. Collective training products will be developed or updated incorporating TTPs. Doctrine writers will incorporate the developed TTPs in the updates to doctrinal manuals.

7.1.2.1 Operational View (OV)

Not applicable.

7.1.2.2 Systems View (SV)

FWS is an optic and does not exchange or transmit data.

7.1.2.3 Technical View (TV)

FWS is an optic and does not exchange or transmit data.

7.1.3 Management, Evaluation, and Resource (MER) Processes Component

FWS will be maintained by CLS personnel under contract to PM-SMS. CLS will include site management, operations and operating force coordination, system instruction, support to after action reviews, systems maintenance and logistical support.

7.1.3.1 Management

- Management of the FWS will remain the responsibility of the PM throughout its life cycle.
- Management of TSS products will transfer to DOTD, TDD, and doctrine upon completion of NET.

7.1.3.1.1 Strategic Planning

FWS will require a fielding plan and basis of issue plan to field to the operating force.

7.1.3.1.2 Concept Development and Experimentation (CD&E)

CD&E associated with FWS will be performed by PM-SMS and PM night vision.

7.1.3.1.3 Research and Studies

DOTMLPF analysis was conducted during the training development process.

7.1.3.1.4 Policy and Guidance

- AR 350-1, Army Training and Leader Development.
- TRADOC Regulation 350-70, Army Learning Policies and Systems.
- TP 525-8-2, Army Learning Model.

7.1.3.1.5 Requirements Generation

- JCIDS process (ICD, CDD, and CPD).
- STRAP.
- TSP.

7.1.3.1.6 Synchronization

MFP will serve as the single stand-alone document containing the detailed plans and actions the fielding and gaining unit commands will accomplish to successfully field and deploy the FWS. Initial fielding will be based on deployment schedule of receiving BCTs.

7.1.3.1.7 Joint Training Support

There is no joint training support requirement associated. Evaluation of the TSS processes necessary to develop, field, and train the FWS will be according to applicable Army regulations, pamphlets, and guides.

7.1.3.2 Evaluation

Post-fielding evaluations will be conducted by MCoE QA approximately 1 year following the FWS FUE.

7.1.3.2.1 Quality Assurance (QA)

QA will be conducted according to each installation's QA plan. Each QA office will use proven techniques to determine the quality of training provided by the institution. External evaluations will focus on the use of tasks trained, the proper application of those tasks, and identification of tasks not trained but needed. Internal evaluations will focus on the presentation of the tasks at the institution, the course content, and the presentation of material by the instructor.

7.1.3.2.2 Assessments

The MCoE DOTD will start assessing the FWS training program one year after training is implemented. The assessment will evaluate the effectiveness and efficiency at all centers of excellence. Identify changes to increase unit training proficiency and resolve generating and operating force standardization issues.

7.1.3.2.3 Customer Feedback

- Electronic media for surveys, help desks, and collaboration.
- Interviews.
- Questionnaires.
- Post combat surveys.

7.1.3.2.4 Lessons Learned/After-Action Reviews (AARs)

MCoE DOTD will leverage the CALL database for new TTPs as well as conducting face-to-face interviews with units/individuals returning from theater to ensure training programs and instruction remain relevant.

7.1.3.3 Resource Processes

PM-SSL is responsible for all funding to support training; development; NET; associated training products, including TADSS if applicable. Management of the FWS will remain the responsibility of the PM throughout its life cycle. Management of TSS products will transfer to DOTD, TDD, and Doctrine upon completion of NET. Increment I is a technical insertion of the 17 micron capability under TWS under TWS-IIB.

Funding outline is as follows;

FWSI	Total	2011	2012	2013	2014
FIELDING	\$3,543.	\$655.	\$462.	\$1,197.	\$1,227.
Initial Fielding Spares	\$720.	\$655.	\$63.		
NET	\$1,496.400		\$211.500	\$634.500	\$650.400
NET - Ammunition	\$1,326.874		\$187.544	\$562.632	\$576.698
Then Year (\$K)					
Total RDT&E:	\$1,000.196				
Total Procurement:	\$62,269.236				
Total O&S:	\$30,170.629				
Total Program LCC Req.	\$93,440.061				

Item Resourced	FY12	FY13	FY14	FY15	FY16	FY17
New Equipment Training						
Contractor	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY
Contract/Spt	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
Trvl/Per Diem	\$40K	\$40K	\$40K	\$45K	\$50K	\$50K
Classrooms	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
Equipment	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
AC/DC Power	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
Printing	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Rationale: Classrooms suitable for twelve students with standard electrical power are required for NET.						
Training Products						
Training Pubs			0.2MY	0.2MY	0.2MY	0.2MY
TSP			0.2MY	0.2MY	0.2MY	0.2MY
IMI			0.2MY	0.2MY	0.2MY	0.2MY
ETM	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
STP	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
IETM	\$40K	\$40K	\$40K	\$45K	\$50K	\$50K
ARTEP/MTP	0.1MY	0.1MY	0.1MY	0.1MY	0.1MY	0.1MY
Printing	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Distribution	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Rationale: Cost to develop, revise, maintain, and distribute training products. Includes cost to develop TSP that will be used for NET, and all training domains.						
TADSS						
Simulators	0.6K	0.6K	0.8K	0.7K	0.6K	0.5K
Simulations	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
GTA	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Software	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Trng Equip*	0.6K	0.6K	0.9K	0.9K	0.8K	0.7K
Equipment	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Printing	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Shipment	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K

Sustainment	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
Rationale: Cost to procure and sustain TADSS. Includes cost to develop and maintain a simulator for institutional training. Also includes the cost to procure and maintain actual systems for training use. Twelve actual operational systems are required for use as training devices.						
*Actual item of equipment used for training which does not lose its identity as an end item for operational purposes.						
Facilities/Land						
Facilities	0.6K	0.6K	0.8K	0.7K	0.6K	0.5K
Land	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Site Surveys	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Concrete Pad	0.6K	0.6K	0.8K	0.7K	0.6K	0.5K
AC/DC Power	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Equipment	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Maintenance	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Other	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
Rationale: Cost to modify existing facilities to accommodate new power and shielding requirements of new system Concrete pad and electrical power needed to operate simulator.						
Training Services/TII						
LMS	0.6K	0.6K	0.8K	0.7K	0.6K	0.5K
Services	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Servers	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
Licenses	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
IT Support	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
Other	0.5K	0.5K	0.5K	0.5K	0.5K	0.5K
Rationale: Software license and IT support will be required.						
Evaluation/QA						
Contractor	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY
Civilian	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY	1.0MY
Enlisted			0.2MY	0.2MY	0.2MY	0.2MY
Warrant			0.2MY	0.2MY	0.2MY	0.2MY
Officer			0.2MY	0.2MY	0.2MY	0.2MY
Contract/Spt	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K

Civ Pay	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
Trvl/Per Diem	\$40K	\$40K	\$40K	\$45K	\$50K	\$50K
Facilities	\$100K	\$100K	\$100K	\$100K	\$100K	\$100K
Equipment	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
Printing	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
TEA	\$100K	\$100K	\$100K	\$100K	\$100K	\$100K
PFTEA	\$200K	\$200K	\$200K	\$200K	\$200K	\$200K
Rationale:						

8.0 Self-Development Training Domain

- The TM and TSP will be left with the unit and are available on line via CAR to support self-development training. Training material will be stored in CAR via warrior university and the ATN will have a link to this training material. These products combine to provide the Soldier with all the tools necessary to support self-development. PM-SMS will develop an IMI for the FWS.
- TSPs will be maintained by MCoE and available via CAR.

8.1 Self-Development Training Concept and Strategy

- The NET team will leave FWS TSPs with the unit following NET for unit and self-development training.
- TSPs will be maintained by MCoE and available online via CAR and ATN.

8.1.1 Product Lines

- STPs.
- TSP for individual training.

8.1.1.1 Training Information Infrastructure

- TSP provided to unit during NET training.
- TSP will be available online via CAR/ATN.

8.1.1.2 Training Products

All training support manuals, training literature publications, and other training products will be provided during NET. It is the unit's responsibility to make these materials available to individual Soldiers for self-development. The training materials will be available on CAR/ATN.

8.1.1.2.1 Courseware

MCoE DOTD and USAIS will assist in the training development and ensure operational training requirements are met. Once the training strategy is proven, it will be made available to Soldiers via CAR/ATN.

8.1.1.2.2 Courses

Not applicable.

8.1.1.2.3 Training Publications

- Hard copies and digital publications will include a TM, quick reference card, TSP, and STPs.
- Updated publications will be available from PM-SSL and LOGSA.
- MCoE and CASCOM will maintain the TSPs.

8.1.1.2.4 Training Support Package (TSP)

- The TSP will be left with the unit upon completion of NET training for individual Soldiers self-development.
- The TSP will also be available via CAR/ATN.

8.1.1.3 Training Aids, Devices, Simulators and Simulations (TADSS)

Not applicable.

8.1.1.4 Training Facilities and Land

Not applicable.

8.1.1.5 Training Services

Not applicable.

8.1.2 Architectures and Standards Component

Not applicable.

8.1.3 Management, Evaluation, and Resource (MER) Processes Component

Contact information is listed in the TM and TSP that allows the user to communicate directly with the logistician and trainer. Soldiers can provide feedback directly to the NET trainers and to the training developer via CAR/ATN.

8.1.3.1 Management

Not applicable.

8.1.3.2 Evaluation

Not applicable.

8.1.3.3 Resource Processes

Not applicable.

A Milestone Annex

TRAINING DEVELOPMENT MILESTONE SCHEDULE - SHEET A	PAGE OF PAGES	REQUIREMENTS CONTROL SYMBOL	
SYSTEM: FWS	ACAT	OFFICE SYMBOL	AS OF DATE
POINTS OF CONTACT	NAME	OFFICE SYMBOL	TELEPHONE
MATERIEL COMMAND			
TRADOC PROPONENT	ATSC		757-878-0698
TCM			
CD:	John O'Hara		706-545-4951
TD:	Ron Shoemaker	ATZB-TDT	706-718-5954
ATSC:	Larry Cook		757-878-0768
SUPPORTING PROPONENTS:	Ann Pegram (PM-SMS)		703-704-0222
ITEM	DATE	RESPONSIBLE AGENCY/POC	TELEPHONE
MNS:			
SMMP:			
MRD:			
ILSMP:	2Q2013	Tom Grover	703-704-3784

TRAINING DEVELOPMENT MILESTONE														
SCHEDULE - SHEET B	PAGE OF PAGES					REQUIREMENTS CONTROL SYMBOL								
SYSTEM: FWS	TRADOC SYMBOL					DATE								
TRAINING PACKAGE: Family of Weapon Sights														
ELEMENT/PRODUCT														
Legend:	MILESTONES BY QUARTER													
CDD			x											
CPD							x							
STRAP								x						
TTSP									x					
TM											x			
POI Submitted											x			
FM updates												x		
NOTE: Identify TRAINING DEVELOPMENT MILESTONES. TRADOC FORM 569-1-R-E provides a detailed list of typical training development products required to support system training integration.														
COMMENTS:														

B References

AR 70-1, Army Acquisition Policy, 22 July 2011.

AR 70-38, Research, Development, Test and Evaluation of Materiel for Extreme Climatic Conditions, 15 September 1979.

AR 70-75, Survivability of Army Personnel and Materiel, 2 May 2005.

AR 71-9, Warfighting Capabilities Determination, 28 December 2009.

AR 350-1, Army Training and Leader Development, 18 December 2009.

AR 750-1, Army Materiel Maintenance Policy, 20 September 2007.

CJCSI 3170.01H, Joint Capabilities Integration and Development System (JCIDS), 10 January 2012

CJCSI 6212.01F, Net Ready Key Performance Parameter (NR KPP), 21 March 2012.

CJCSM 3170.01B, Operation of JCIDS,

CJCSM 3500.04F, Universal Joint Task Manual, 1 June 2011.

DODD 5000.01, The Defense Acquisition System, 12 May 2003.

DODI 5000.02, Operation of the Defense Acquisition System, 8 December 2008.

FM 7-15, the Army Universal Task List, 27 February 2009.

TRADOC Regulation 350-70, Army Learning Policy and Systems, 6 December 2011.

Capability Production Document, Family of Weapon Sights, (AROC approved).

JROCM 176-03, Subject: Approved Capstone Requirements Document.

Acronym list

AMTAS	Army Modernization Training Automation System
ATN	Army Training Network
ATSC	Army Training Support Command
BCT	brigade combat team
CALL	Center Army Lessons Learned
CAR	Central Army Registry
CASCOM	Combined Arms Support Command
CATS	Combined Arms Training Strategy
CCTT-DSTS	Close Combat Tactical Trainer-Dismounted Soldier Training System
CD&E	Concept Development and Experimentation
CDD	Capability Development Document
CLS	Contract Logistical Support
CPD	Capabilities Production Document
CTC	Combat Training Centers
DOTD	Directorate of Training and Doctrine
DOTMLPF	Doctrine, Organization, Training, Materiel, Leadership and education, Personnel, and Facilities
DTMS	Digital Training Management System
ELO	Enabling Learning Objective
EST	Engagement Skills Trainer
FUE	First Unit Equipped
FWS	Family of Weapon Sights
FWSI	Family of Weapon Sights Individual
FWSCS	Family of Weapon Sights Crew Serve
FWSS	Family of Weapon Sights Sniper
i^2	image intensifiers
ICD	Initial Capability Document
IETM	Interactive Electronic Technical Manual
IMI	Interactive Multimedia Instruction
IMT	Initial Military Training
ITE	integrated training environment
HMD	Head Mounted Display
JCIDS	Joint Capabilities Integration and Development System
LCC	Life Cycle Costs
LOGSA	Logistics Support Activity
LVC-G	Live, Virtual, Constructive and Gaming
MCoE	Maneuver Center of Excellence
MFP	Master Fielding Plan
MILES	Multiple Integrated Laser Engagement System
MOS	Military Occupational Specialties
NET	New Equipment Training
OT	Operational Test

PEO	Program Executive Office
PM-CATT	Program Manager-Combined Arms Tactical Trainer
PM-SMS	Program Manager-Soldier Maneuver Sensors
POI	Program of Instruction
QA	Quality Assurance
RTA	Rapid Target Acquisition
SAW	Squad Automatic Weapon
SCORM	Sharable Content Object Reference Model
SDD	System Development and Demonstration
STP	Soldier Training Publications
STRAP	System Training Plan
TADSS	Training Aids Devices Simulators, and Simulations
TCM	Training and Doctrine Capability Manager
TDC	Training Development Capability
TDD	Training Development Division
TM	Technical Manual
TRADOC	Training and Doctrine Command
TSP	Training Support Package
TTP	Tactics Techniques and Practices
TTSP	Training Test Support Package
TWS	Thermal Weapon Sight
USAIS	United States Army Infantry School

C Coordination Annex

Organization/POC (Date)	Summary of Comments Submitted (A/S/C)			Comments Accepted/ Rejected						Rationale for Non-Acceptance - S, C
				Accepted			Rejected			
	A	S	C	A	S	C	A	S	C	
v0.2 Army - USASOC 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - USARC G7 (US Army Reserve Cmd) 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - USAACE - Aviation School 2012/10/19 - 2012/11/18	Document Accepted As Written			0	0	0	0	0	0	-
v0.2 Army - TRADOC_ARCIC 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - TRADOC G-3/5 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - TCM-Transportation 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - TCM-SBCT 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - TCM-Live 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - TCM dL 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - TCM ATIS 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - SIGCoE - Signal School 2012/10/19 - 2012/11/18	2	0	0	2	0	0	0	0	0	
v0.2 Army - SCoE 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - MSCoE - MANSCEN	3	2	1	3	2	1	0	0	0	

Organization/POC (Date)	Summary of Comments Submitted (A/S/C)			Comments Accepted/ Rejected						Rationale for Non-Acceptance - S, C
				Accepted			Rejected			
	A	S	C	A	S	C	A	S	C	
2012/10/19 - 2012/11/18										
v0.2 Army - IMCOM 2012/10/19 - 2012/11/18	Document Accepted As Written			0	0	0	0	0	0	-
v0.2 Army - Human Resource Command (HRC) 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - HQDA G2 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - Combined Arms Center 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - CAC-T; Training Management Dir 2012/10/19 - 2012/11/18	5	31	0	5	31	0	0	0	0	
v0.2 Army - Brigade Modernization Cmd (BMC) 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - ATSC TSAID 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - ATSC 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.2 Army - ARNG-RMQ-RA 2012/10/19 - 2012/11/18	Document Accepted As Written			0	0	0	0	0	0	-
v0.2 Army - AMEDD Center & School 2012/10/19 - 2012/11/18	No Comments Submitted			0	0	0	0	0	0	-
v0.1 Peer - USASOC 2011/11/04 - 2011/12/04	No Comments Submitted			0	0	0	0	0	0	-
v0.1 Peer - TCM-Virtual (CS/CSS) 2011/11/04 - 2011/12/04	No Comments Submitted			0	0	0	0	0	0	-
v0.1 Peer - TCM-Live 2011/11/04 - 2011/12/04	Document Accepted As			0	0	0	0	0	0	-

Organization/POC (Date)	Summary of Comments Submitted (A/S/C)			Comments Accepted/ Rejected						Rationale for Non-Acceptance - S, C
				Accepted			Rejected			
	A	S	C	A	S	C	A	S	C	
	Written									
v0.1 Peer - TCM-HBCT 2011/11/04 - 2011/12/04	No Comments Submitted			0	0	0	0	0	0	-
v0.1 Peer - TCM-Gaming 2011/11/04 - 2011/12/04	No Comments Submitted			0	0	0	0	0	0	-
v0.1 Peer - TCM dL 2011/11/04 - 2011/12/04	No Comments Submitted			0	0	0	0	0	0	-
v0.1 Peer - PM-HBCT 2011/11/04 - 2011/12/04	No Comments Submitted			0	0	0	0	0	0	-
v0.1 Peer - MSCoE - MANSCEN 2011/11/04 - 2011/12/04	Document Accepted As Written			0	0	0	0	0	0	-
v0.1 Peer - MANSCEN-Military Police 2011/11/04 - 2011/12/04	No Comments Submitted			0	0	0	0	0	0	-
v0.1 Peer - ATSC 2011/11/04 - 2011/12/04	1	3	1	1	3	1	0	0	0	
v0.1 Peer - ATEC 2011/11/04 - 2011/12/04	No Comments Submitted			0	0	0	0	0	0	-
v0.1 Peer - Army National Guard 2011/11/04 - 2011/12/04	No Comments Submitted			0	0	0	0	0	0	-
v0.1 Peer - Army Material Command (AMC), G3 2011/11/04 - 2011/12/04	No Comments Submitted			0	0	0	0	0	0	-

Key
Completed Review with Comments
Completed Review, No Comments
Active Review Occurring