



**DEPARTMENT OF THE ARMY**  
**U.S. ARMY CORPS OF ENGINEERS**  
**WASHINGTON, D.C. 20314-1000**

CEMP-SWD

**AUG 15 2008**

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Interim Range Design Standards

1. References.

- a. Memorandum, DAMO-TRS, 14 February 2008, Subject: Digital Range Program Way Ahead.
- b. Memorandum, ATIC-TPI-L, 28 March 2008, Subject: Validation/Approval of Training Range Designs for the Sustainable Range Program (SRP).

2. The Army's contemporary operating environment is driving critical changes to training standards as identified in referenced documents. As a service provider, USACE must adjust and support the changing training standards documented in Training Circular (TC) 25-8 Army Training Ranges which governs our final military construction (MCA) design solutions. Until such time as TC 25-8 is approved and re-published, interim programming and design processes will be implemented for FY 2010-11 MCA range projects as described by reference 1.b. Reference 1.a describes our end-state design scope for FY2009 range projects and is limited to only a few digital range projects as stated.

3. USACE MSCs will revise your design efforts based on changes to specific range facilities provided in referenced documents.

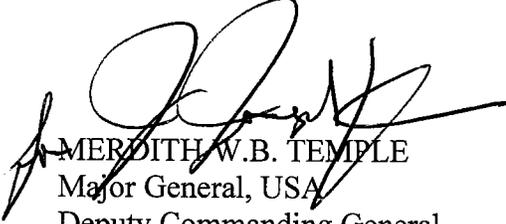
4. USACE MSCs will also

- a. Capture lost design effort for FY2009 -2011 range projects resulting from the implementation of the interim range design standards.
- b. Develop cost variance reports showing the delta from the current approved range project scope and revised scopes using the interim standards (reference 1.b. criteria).
- c. NLT 1 October 2008, forward the cost and lost design effort information to: Range MCX, ATTN: CEHNC-ISP-MI (Mark Fleming), 4820 University Square, Huntsville, AL 36801-1822.

CEMP-SWD  
SUBJECT: Interim Range Design Standards

5. Point of contact at this headquarters is Stacey Hirata at 202-761-4271.

FOR THE COMMANDER:



MEREDITH W.B. TEMPLE  
Major General, USA  
Deputy Commanding General  
for Military and International Operations

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**DEPARTMENT OF THE ARMY**  
OFFICE OF THE DEPUTY CHIEF OF STAFF, G-3/5/7  
400 ARMY PENTAGON  
WASHINGTON, DC 20310-0400

DAMO-TRS

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Digital Range Program Way Ahead

1. At the December 2007 Training and Leader Development GOSC (TLGOSC), DAMO-TR briefed the status and courses of action for future execution of the digital range program. A decision was held in abeyance pending further coordination.

2. On 9 January 2008, DAMO-TR briefed the HQDA G-3/5/7 on the digital range program. The G-3/5/7 concurred with the following conclusions:

a. The Army remains challenged in its ability to deliver complex instrumented (digital) home station ranges. As the Army begins to construct digital ranges, fewer assets are available to deploying commanders because of Surface Danger Zone (SDZ) conflicts and long IOC delays.

b. Risk remains in completing near-term ranges (through FY09) with DRTS v1.3 and variants.

c. TRADOC TCM-L must assess DRTS VII against the Army's instrumented live fire range requirements. Decision Point is 1st Quarter, FY09 based on fielding at Fort Carson DMPRC of DRTS VII.

d. Once DRTS VII is deemed to be successful, the Army will be required to resource and retrofit six existing DRTS v1.3x ranges previously funded through FY08, requiring \$3M, OPA, in FY10-11. New digital ranges built after FY09 will be installed with DRTS VII, when it proves successful.

e. If DRTS VII is not successful at the Fort Carson DMPRC in 1<sup>st</sup> Qtr, FY09, the Digital Range Program will be reassessed in terms of further investment.

f. The Army will upgrade Range 118 at the Grafenwoehr Training Area using a Commercial-Off-The-Shelf (COTS) solution, as an alternative range system for large, multi-purpose ranges.

DAMO-TRS

SUBJECT: Digital Range Program Way Ahead

g. The Army must build additional multi-purpose ranges at Fort Bliss in FY10 through FY13 to support seven maneuver BCTs being stationed there. This requirement will be resourced using Grow the Army (GTA) funding.

h. TRADOC TCM-Live must reset/refresh the digital/instrumented range requirements document to reflect all doctrinal and COE-driven changes NLT end of FY09.

3. Based on the above conclusions, the G-3/5/7 provided the following guidance on the Digital Range Program:

a. **Prior year digital range MILCON:**

(1) **FORSCOM Projects:** The Fort Bragg Digital Air Ground Integration Range (DAGIR) (FY07, MCA) is cancelled due to construction bids that are significantly above the MILCON programmed amount. Funding recovered from the cancellation of the Fort Bragg DAGIR will be used for the Fort Stewart DMPC that is also under-programmed against construction bids, and other Army range requirements. This action is IAW FORSCOM priorities.

(2) **USARPAC Projects:** The Schofield Barrack Battle Area Complex (BAX) (FY05, MCA) is on hold due to litigation related to 2-25 ID stationing. The Schofield BAX is 3.5% complete and the contractor is being compensated while the project is on hold. Order to proceed is expected o/a 1 April 2008 based upon 2-25 ID EIS. The Pohakuloa Training Area (PTA) BAX (FY06, MCA) was never awarded due to the same 2-25 ID stationing litigation. The Army will continue to monitor these two projects in the context of the 2-25 ID stationing legal actions and timelines.

Pending outcome of EIS and EOH actions, the Army will reconstitute both BAX projects; however, this will require the projects to be reprogrammed to account for inflation. Alternatively, the Army will take action to program a company level CALFEX range capability on Oahu, and appropriate capabilities on PTA. For either contingency, the Army will seek to complete the remaining, non-Stryker-specific USARPAC range projects currently on hold due to 2-25 ID litigation. These include the Kuhuku Combined Arms Collective Training Facility (CACTF) and the Schofield Barracks Qualification Training Range (QTR), 2.

DAMO-TRS

SUBJECT: Digital Range Program Way Ahead

**b. Digital Range projects under construction:**

(1) The Army will complete all awarded digital range MILCON projects through FY09. PEO STRI will use DRTS v1.3.xx (most current version) for these projects. These projects are listed at Enclosure 1.

(2) The USAREUR Grafenwoehr Training Area Range 118 upgrade (interim BAX) will be executed with a COTS solution other than the PEO STRI DRTS solution. The Range 118 upgrade system will be procured by TACOM. This range will include all BAX capabilities except FBCB2 integration. TRADOC TCM-Live will determine the required scope for this project in coordination with USAREUR JMTC.

(3) The Fort Carson DMPRC is critical in determining the future of the Digital Range Program. This range will be equipped using DRTS VII with an IOC of September 2008. TRADOC TCM-Live will assess the capability of this range against the overall instrumented range requirement. Based on the degree of success of DRTS VII on the Fort Carson DMPRC, further decisions will be made on Army investment in digital ranges.

(4) Pending actions (3b), above, all MILCON investments in digital ranges for FY10-13 will be reprogrammed to provide a two year delay period before the project is reconstituted. For example, projects with MCA funding in FY10 will be funded in FY13. The only exception to this is the FY10 DAGIR at Ft Bliss, TX, because this range must be executed to support 1AD and GTA stationing. Success of DRTS VII at Fort Carson and the Grafenwoehr Range 118 COTS upgrade will determine the range system solution for the Fort Bliss DAGIR.

**c. This HQDA G-3/5/7 guidance is subject to two conditions.**

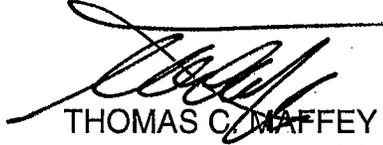
(1). If the overall Training Support Systems (TSS) is a significant billpayer in POM 10-15 or higher Army priorities may force DAMO-TR to reallocate digital range MILCON. The Decision Point for a POM/MILCON slip is POM-lock which is estimated to be in June, 2008.

(2). If the DRTS VII IOC at Carson in September, 2008 is unsuccessful other alternatives will be explored. The Decision Point for the DRTS VII is 1st Quarter, FY09.

DAMO-TRS  
SUBJECT: Digital Range Program Way Ahead

4. The HQDA DCS, G-3/5/7 DAMO-TRS POCs are Mr. Tom Macia, Chief DAMO-TRS, (703) 692-6417, thomas.macia@hqda.army.mil and Mr. Brian Ondrick, Sustainable Range Program Manager, (703) 692-6409, brian.ondrick@hqda.army.mil.

Encl.



THOMAS C. MAFFEY  
Brigadier General, GS  
Director of Training

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PROGRAM EXECUTIVE OFFICE FOR SIMULATION, TRAINING, AND  
INSTRUMENTATION

Enclosure

**Digital Range Software Plan as of February 2008**

**Completed projects that will require FY10-11 retrofit after DRTS v11 validation DP:**

Fort Hood Clabber Jack DMPRC  
Fort Knox DMPRC  
Fort Polk BAX  
Fort Richardson DMPTR/IPBC  
Fort Benning DMPRC  
Donnelly Training Area BAX

**MILCON projects before FY09 that will receive DRTS v1.3x (most current version) prior to DRTS v11 validation (upgrade may be available before IOC):**

Fort Hood Browns Creek DMPTR (FY05 MILCON)  
Fort Riley DMPTR (FY06 MILCON)

**MILCON projects before FY09 that will receive DRTS v11 or alternate COTS depending on Fort Carson Validation**

Fort Stewart DMPRC (FY08 MILCON)  
Yakima DMPRC/BAX (FY08 MILCON)  
Fort Riley DMPRC (FY08 MILCON)  
Fort Bliss DMPRC (FY09 MILCON)  
Fort Bliss DMPTR (FY08 MILCON)

**Projects before FY09 that will receive/validate DRTS v11:**

Fort Carson DMPRC (FY05 MILCON)

**Projects before FY09 that will receive alternate COTS:**

Korea DMPTR (FY07 MILCON)  
Grafenwoehr Training Area Upgrade



**DEPARTMENT OF THE ARMY**  
U.S. ARMY TRAINING SUPPORT CENTER  
FORT EUSTIS, VIRGINIA 23604-5166

REPLY TO  
ATTENTION OF:

ATIC-TPI-L

28 March 2008

MEMORANDUM THRU HQDA (DAMO-TRS/MR. MACIA), CHIEF, TRAINING  
SUPPORT SYSTEMS DIVISION, 450 ARMY PENTAGON, WASHINGTON, DC  
20310-0450

FOR HQ, USACE (3T45/MR. HIRATA), DIRECTOR, MILITARY PROGRAMS,  
441 G STREET, NW, WASHINGTON, DC 20314-1000

SUBJECT: Validation/Approval of Training Range Designs for the  
Sustainable Range Program (SRP)

1. Purpose: Implementation of draft TC25-8, Training Ranges, changes to FY10-11 projects and to establish a bridge agreement for the use of the Range Design Guide (RDG) as the interim design standard for all SRP MILCON projects.

2. TRADOC Capabilities Manager-Live (TCM-Live) and Huntsville MCX are continuing to partner in the update and development of standard range designs, including their descriptions in TC 25-8. However, rapidly emerging doctrine often results in frequent changes to training requirements, impacting the manual's timely publication.

3. In order to provide design information to the field, MCX maintains the Corps of Engineers Range Design Guide (RDG). Web based, RDG can be updated easier than paper manuals. The RDG is based on the latest published version of TC 25-8, dated April 2004, and is not expected to be updated until the next revision of TC 25-8. Consequently, the latest range standards will not be available until then. Enclosure 1 is the listing of changes that affect FY10-11 ranges types programmed in the Army Master Range Plan (AMRP) primarily due to doctrinal changes. Enclosure 2 is the listing for FY10-11 range types in the AMRP primarily due to support facility changes. Designs have been completed; doctrinal requirements have been validated, and will be included into the next iteration of TC 25-8.

ATIC-TPI-L

SUBJECT: Validation/Approval of the Training Range Designs for the Sustainable Range Program (SRP)

4. The Range Configuration Control Board (RCCB) reviews changes to designs and descriptions of future projects for inclusion in the RDG. MCX, TCM-Live and other agencies addresses the effect of emerging training requirements, doctrinal updates in TC 25-8 on the design layouts. A change request is generated and designs are staffed by the RCCB. Engineering changes (infrastructure and interfaces) can be adopted by the RCCB. Before changes that affect layout (TC 25-8 changes) can be incorporated into projects, this additional approval process must occur before a Change Order can be generated to change the RDG.

5. Recommend we use the RDG for current and future projects, including those enclosed, providing the latest information for use in the DD1391. The RDG will become the bridge between updates of TC 25-8, serving as a "Living Document" for the SRP.

6. Point of contact for this action is Mr. Thomas Scarbath, DSN 826-2320, commercial 757-878-2320, Thomas.Scarbath@us.army.mil.

2 Encls

  
JEFFREY G. HILL  
Colonel, Aviation  
Director, TRADOC Capabilities  
Manager-Live

Enclosure 1. Changes Due to Doctrinal Requirements (FY10-11 AMRP)

SUBJECT: Validation/Approval of Training Range Designs for the Sustainable Range Program (SRP)

FCC	Range Title	Drawing - Date updated	Changes or additions primarily due to doctrine or training
17805	Automated Record Fire Range	1-Sep-06	Updated due to doctrinal changes.
17806	Modified Record Fire Range	15-Apr-07	Updated due to doctrinal changes.
17809	Qualification Training Range	1-Jul-07	Updated due to sniper scorecard changes. Approved by USAIS.
17810	Known Distance Range	15-Apr-05	Placed back into manual due to continued requirement.
17812	Automated Sniper Field Fire Range	26-Jul-07	Updated due to sniper scorecard changes. Approved by USAIS.
17822	Combat Pistol Military Police Qualification Course	13-Jun-05	Redesigned for better drainage and improved walking path.
17829	Heavy Sniper Range	2-Aug-07	Updated due to scorecard changes. Approved by USAIS.
17833	Multipurpose Machine Gun Range	26-Nov-07	Updated due to sniper scorecard changes. Approved by USAIS.
17845	Anti-Armor Tracking and Live Fire Range	1-Aug-05	Updated due to doctrinal changes.
17858	Scout/Recce Gunnery Complex	1-Aug-05 MG Lanes need to be added	Increased Scout Capability. Additional Machine Gun Lanes
17859	Digital Multipurpose Training Range	3-Aug-05	Update due to doctrinal changes. Doctrinal changes (forward of the firing line) changes are the same as 17865 Multipurpose Training Range
17878	Urban Assault Course	1-Sep-06	Update with removal of pedestals from stations 1 and 2.
17884	Grenade Launcher Range	1-Sep-06	Updated due to inaccurate ranges of targets (drawing change only).
17891	Infiltration Course	1-Aug-05	Updated due to Army Safety analysis.
17913	Digital Air/Ground Integration Range	24-Jul-07	New range for advanced aviation capability.

Enclosure 2. Changes Due to Support Requirements (FY10-11 AMRP)

SUBJECT: Validation/Approval of Training Range Designs for the Sustainable Range Program (SRP) (FY10-11 AMRP)

FCC	Range Title	Drawing - Date updated	Changes or additions primarily due to operations and support
NA	ROCA Bleacher Enclosure	draft design at MCX	Change due to human factors
NA	ROCA Covered Mess	draft design at MCX	New TRADOC Standard
NA	Instrumentation Loading Dock	1-Oct-08	Added due to instrumentation installation/ removal on firing platforms.
17883	Hand Grenade Familiarization Range	Current TC25-8 Design	Needs to be added to RDG. Support facility reduction from TC25-8.
17882	Hand Grenade Qualification Course	Current TC25 Design	Needs to be added. Support facility reduction.
17885	Light Demolition Range	Current TC25 Design	Needs to be added to RDG. No change from TC25-8 design.
17892	Fire and Movement Range	Current TC25 Design	Add Covered Mess