

Errata Sheet

CEMP-CI

ER 210-3-2

**Army Range and Training Support System Program**

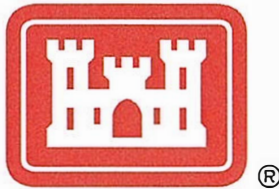
30 September 2022

**As Read:** Page 6 paragraph 8.f.(2)

(2) Coordinate Unexploded Ordnance and Munitions and Explosives of Concern issues on TSS and Range projects with the UXO CX.

**Change To:**

(2) Coordinate Unexploded Ordnance and Munitions and Explosives of Concern issues on TSS and Range projects with the RTLP UXO Subject Matter Experts.



Department of the Army  
U.S. Army Corps of Engineers  
Washington, DC

\*Engineer Regulation 210-3-2

CEMP-CI

Effective 30 September 2022

Installations  
**Army Range and Training Support System Program**

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FOR THE COMMANDER:

JAMES J HANDURA  
COL, EN  
Chief of Staff

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**Purpose.** This regulation defines specific responsibilities and policies for the planning, programming, design, and construction of training ranges and Training Support Systems (TSS) facilities established in Army Regulation (AR) 350-52.

**Applicability.** This regulation applies to all Headquarters (HQ) USACE staff elements and USACE divisions, districts, centers, and field operating activities (FOA).

**Distribution Statement.** Approved for public release; distribution is unlimited.

**Proponent and Exception Authority.** The proponent of this regulation is the Chief, Installation Readiness Division (CEMP-CI). The proponent has the authority to approve exceptions or waivers to this regulation that are consistent with controlling law and regulations. Only the proponent of a publication or form may modify it by officially revising or rescinding it.

\*This Engineer Regulation (ER) supersedes ER 210-3-2, dated 01 October 1990.

# ***SUMMARY of CHANGE***

ER 210-3-2 Army Range and Training Support System Program  
United States Army Corps of Engineers (USACE)

Planning Branch: USACE HQ Installation Readiness Division

This administrative revision, dated 30 September 2022:

- Updates the purpose
- Updates the applicability
- Added distribution statement
- Updates the references
- Added Records Management Requirements
- Updates the general requirements
- Updates the policy requirements
- Updates responsibilities

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## **1. Purpose**

This regulation defines specific responsibilities and policies for the planning, programming, design, and construction of training ranges and other facilities of the Army Training Support System (TSS).

a. The TSS includes the Sustainable Range Program, Mission Training Support, Soldier Support, and Combat Training Center programs. As documented in AR 350–52, the Deputy Chief of Staff, G-3/5/7 (DCS, G-37/TR), manages the military construction (MILCON) process for TSS. AR 350–52 defines the function, roles, and responsibilities, of the Range and Training Land Program Mandatory Center of Expertise (RTLTP MCX) within that process.

b. The RTLTP MCX, in partnership with the TSS Project Delivery Team (PDT), has the leadership responsibility for the USACE role in project planning and programming. The geographic district (GD) retains design and construction responsibility under technical oversight and direction from the RTLTP MCX.

## **2. Applicability**

This regulation applies to Headquarters U.S. Army Corps of Engineers (HQUSACE) elements, major subordinate commands, districts, laboratories, and separate field operating activities (FOA) responsible for providing engineering support to the TSS Programs and Army Sustainable Range Program. The U.S. Army Engineering and Support Center, Huntsville, with oversight from USACE's Directorate of Military Programs, Installation Readiness Division, is the primary USACE point of contact with the Army's TSS and Sustainable Range Program proponent, Army G-3 Training (and their executive agent, Army Training Support Center, Training and Doctrine Command [TRADOC] Proponent Office Ranges [TPO Ranges]), the Training Support Analysis and Integration Directorate (TSAID), and the National Simulation Center (NSC) Mission Command Training Support Division (MCTSD) on Range and TSS projects. The RTLTP MCX must execute responsibilities as primary technical authority for TSS and range project planning, programming, design, and construction. The RTLTP MCX provides the same functions on non-TSS range facilities on a reimbursable basis. RTLTP MCX use is mandatory on Army funded range facilities and optional on range facilities funded by other Agencies.

## **3. Distribution Statement**

Distribution is unlimited.

## **4. References**

Required and related publications are listed in Appendix A.

## **5. Records Management (Recordkeeping) Requirements**

The records management requirement for all record numbers, associated forms, and reports required by this regulation are addressed in the Army Records Retention Schedule – Army (RRS–A). Detailed information for all related record numbers, forms and reports are located in Army Records Information Management System

(ARIMS)/RRS–A at <https://www.arims.army.mil>. If any record numbers, forms, and reports are not current, addressed, and/or published correctly in ARIMS/RRS–A, see Department of the Army (DA) Pamphlet 25–403, Guide to Recordkeeping in the Army, for guidance.

## **6. General**

This regulation should not be considered a comprehensive, single-source document and must be used in conjunction with AR 350–52 to successfully accomplish required coordination between Army Commands (ACOM) and installation trainers, safety personnel, and engineer facility planners.

a. The objective of the Army TSS and range modernization and standardization initiative is to provide training facilities capable of meeting the complexity and capability of new weapon systems, organizational structures, and training doctrine that are consistent across all Army installations.

b. Standard generic designs for ranges and TSS facilities must be cost effective and require coordination with numerous ACOM and Army Staff agencies and/or activities in the areas of safety, environmental protection, unexploded ordnance (UXO), range operations, and training doctrine. A coordinated, comprehensive approach must be used to avoid any confusion or duplication of effort by designating an RTLP MCX for the modernization and standardization of Army TSS facilities, training ranges, and selected training facilities. The RTLP MCX develops standard generic facility designs that identify all mandatory requirements to support high technology integration into training facilities.

c. Standardization requires the central management of TSS and range facility designs for commonly constructed facilities. Standard generic designs provide facilities that meet the training and qualification standards and are flexible enough to meet individual mission requirements as determined by installation and mission commanders.

d. The determination of each TSS facility size, number of each range type, or facility components of the range complex should use a common analysis procedure or approach throughout the Army. Range standard designs are reviewed and approved by the TSS PDT through the Range Configuration Control Board (RCCB) for training capability, safety, environmental protection, and engineering standards prior to adoption. Standard criteria document and designs for other TSS facilities (such as Training Support Center, Mission Training Complex) are reviewed and approved by TSAID, NSC, and/or MCTSD, as appropriate.

e. Standard generic designs are defined as the technical data (drawings, layouts, and narrative description) addressing the minimum necessary components for an operable range or training facility.

## **7. Policy**

The policies and procedures outlined in this regulation and the management plan will be strictly adhered to. Any deviation must be approved by the Director of Military Programs, HQUSACE, or designated appointee.

a. Tasking and direction of the RTLP MCX will be accomplished by the HQUSACE Program Manager (HQUSACE PgM) for Army Training, HQUSACE (CEMP-CI).

b. Standard generic designs will be provided in a USACE design guide. The Range Design Guide may be obtained from the RTLP MCX. At a minimum, the design manuals and subsequent changes will provide an applicability statement. The applicability statement determines when and how the design information will be applied to specific facility and range projects by type (such as next budget year submission, FY25 projects). When the criticality of the design or change necessitates immediate implementation, the RTLP MCX will forward their recommendation and rationale to HQUSACE PgM for coordination and approval.

c. Engineer planning and design criteria will be based on HQ TRADOC, Mission Training Support Program, Soldier Support Training Program, Sustainable Range Program, Combat Training Center Program approved training requirements (strategies, standards, and objectives), environmental protection requirements (ARs 200–1 and 200–2), all applicable range safety requirements and clearances (for example, DoD 6055.9–STD, DoD 5100.76–M, AR 385 series), Unified Federal Criteria, and airspace management requirements (AR 95–2). Deviation from the above standards, requirements, and directives will be based on concurrence by the proponent agencies.

d. When a standard generic design is developed for facilities or ranges, it will be based on the training requirements and targetry layout identified in Training Circular (TC) 25–8 and TC 25–1 to the extent possible.

e. The term mandatory implies strict adherence and application. Mandatory standards should not be applied to existing facilities or facilities constructed under previous or emergency standards that can continue to be used without impairing operational efficiency or safety. Waivers to mandatory aspects of range design and construction will be kept to a minimum, will be approved by HQUSACE PgM, and may require an exception to the standard approved by the TSS PDT. Non-conformance to mandatory aspects of design identified in USACE design guide manuals and other engineering changes will not be the sole basis or requirement for existing facility modification or replacement. For range projects, all waivers to mandatory range designs require that the exception to standard be approved by the appropriate ACOM and TPO Ranges.

f. Special purpose or non-standard range projects are exceptions to standard and require approval by the TSS PDT. USACE activities, having a need or desire to raise specific issues for consideration by the Headquarters, Department of the Army (HQDA) Management Review (MR), should forward such information to HQUSACE PgM.

g. Range issues are defined as matters or actions that cannot be resolved at ACOM, FOA, or lower level and are forwarded to TPO Ranges for resolution. Issues are not limited to engineering areas of concentration. All range questions and/or issues must be coordinated with HQUSACE PgM and RTLP MCX prior to coordination with other Army staff agencies or activities for resolution. It is highly recommended that HQUSACE PgM and RTLP MCX be consulted prior to coordination with other USACE

offices or activities to preclude any duplication of effort in an often time-sensitive environment.

## **8. Responsibilities**

a. DCS, G-37/TR will coordinate or provide training range requirements that originate from either the materiel acquisition process or organizational restructuring to the field in conjunction with CEMP-CI-P.

b. DCS, G-9 will coordinate or provide:

(1) Military Construction, Army and Military Construction, Army Reserve Office of the Chief, Army Reserve programming guidance.

(2) Current programming status and assistance to the DCS, G-37/TR PgM at HQDA MR meetings.

c. Office of the Assistant Chief of Engineers (OCE) will coordinate or provide formal OCE positions on range issues with the Army staff.

d. Installation Readiness Division, Directorate of Military Programs, HQUSACE (CEMP-CI) will:

(1) Designate an HQUSACE PgM to serve as the USACE focal point for management, coordination, and representation of USACE policies and procedures. At a minimum, the HQUSACE PgM will:

(a) Review engineer resource requirements and ensure Program Objective Memorandum submissions are executed to fund USACE missions in support of the Army Training Program.

(b) Provide HQUSACE management, direction, and tasking on the activities of the USACE RTLP MCX.

(c) Establish procedures for handling projects that have not met necessary requirements (for example, safety, environmental, master planning, operational).

(d) Provide either technical assistance to or present HQUSACE engineering policies, procedures, and criteria at various related boards, meetings, or conferences.

(e) Identify those special facilities which should be reviewed by the HQDA MR.

(2) Ensure doctrinal, organizational structure, and material system changes are considered in planning, programming, designing, and constructing TSS facilities and range facilities (CEMP-CI-P) by:

(a) Keeping abreast of changes in material development for impact on USACE initiatives, policies, and procedures while maintaining documentation on data, analysis, rationale, and decisions made based on HQ, TRADOC-approved training requirements and impacts during the development of new systems (AR 700–127).

(b) Providing technical guidance on doctrinal and organizational structure changes that affect training ranges.

(c) Presenting applicable information to the RCCB for the development or modification of standard generic designs.

(d) Developing and providing to the field, TSS facility, and training range facility requirements identified above in conjunction with the DCS, G-37/TR PgM.



(3) Assist TPO Ranges, ACOM, and installations in planning and programming facilities in support of the Army TSS and Range Program as requested in conjunction with the DCS, G-37/TR PgM.

(4) Serve as the USACE representative at HQDA MR meetings.

(5) Assist ACOM and installations in planning and programming facilities in support of the Army TSS and Range Program.

e. The Programs Integration Division, Directorate of Military Programs, HQUSACE (CEMP-I) will:

(1) Provide an update on a quarterly basis, range project construction schedules and issues to the DCS, G-37/TR PgM.

(2) Coordinate DCS, G-37/TR PgM-directed and corporate group design and construction actions with the HQUSACE PgM, as required.

(3) Issue directives on design and construction actions through CEMP-IA, as directed by the DCS, G-9.

f. USACE RTLTP MCX will:

(1) Support Army TSS and range modernization and standardization by:

(a) Developing and updating standard generic designs for ranges to meet training requirements and documenting those standards in the Range Design Guide (RDG).

(b) Assisting HQUSACE in program formulation, technology transfer, program coordination, and publication of documents related to range design and construction.

(c) Monitoring technological advancements from industry and HQUSACE laboratories for adoption into applicable aspects of range design and construction. Of primary interest are those advancements which can enhance or improve current engineering practices and capabilities. Coordination with HQDA MR and the HQUSACE PgM is required prior to adoption.

(d) Establishing and maintaining archives of USACE design manuals.

(e) Co-chairing the RCCB to develop standard range designs and targetry interfaces in coordination with the Army G-3 Training, TPO Ranges, ACOMs, material developers, and Army Centers of Excellence (CX).

(f) Supporting the Range Development Working Group (RDWG) in engaging Army proponents to identify emerging doctrinal and training range requirements based on new weapon systems, ammunition, tactics, techniques, and procedures, and training scenarios.

(2) Coordinate Unexploded Ordnance and Munitions and Explosives of Concern issues on TSS and Range projects with the UXO CX.

(3) Support range project programming, design, and construction by:

(a) Validating programming documentation (such as DD Forms 1390/1391, ENG Form 3086) for conformance to the mandatory aspects of TSS facilities and range design prior to project inclusion in the MILCON program.

(b) Maintaining a professional services Architecture/Engineer (AE) Indefinite Delivery Order Contract of experience range designers available for use by the GD.

(c) Review for approval GD design methodology (such as in-house or AE design) based on TSS facility complexity and in-house design team's experience with designing the type of facility. Coordinate response with HQUSACE PgM.

(d) Supporting the GD in the AE selection process.

(e) Coordinating project schedules for planning charrettes, design review meetings, and required construction inspections with the TSS community to maximize participation.

(f) Reviewing TSS and range designs at each stage of development, concept through ready to advertise; participating in all predesign and design conferences for TSS and range projects.

(g) Evaluating and validating line of sight requirements on specific range designs as required by the RDG.

(h) Review and approve GD construction acquisition methodology (such as design-bid-build or design-build acquisition) based on the TSS facility uniqueness and complexity. Coordinate response with HQUSACE PgM.

(i) Participating in the construction contractor selection process as requested by the GD.

(j) Participating in construction kickoff meetings on complicated facilities and as requested by the GD.

(k) Reviewing construction submittals for targetry interface-specific items in coordination with and as requested by the GD.

(l) Participating as the HQUSACE representative in the two required construction interface inspections for ranges using Army targetry and coordinating scheduling of the inspections with the GD and Training Support System Enterprise \ PDT. The two inspections required by AR 350-52 are the Construction Compliance Inspection and a Targetry Interface Inspection.

(m) Providing a technical consulting service to FOA during design and construction of TSS facilities and range modernization projects (for example, interface requirements, ballistic and digitized terrain modeling/analysis, targetry protection).

(4) Advise HQDA MR where the application of design guidance for a project does not appear to meet training requirements and provide information copy to the HQUSACE PgM.

*g.* Operating engineer divisions and engineer districts, USACE will:

(1) Execute design and construction of approved projects in coordination with the RTLP MCX.

(2) Coordinate with the RLTP MCX for approval of the designer selection.

(3) Ensure the inclusion of the RTLP MCX and TSS PDT in the design review process, including predesign and design review conferences.

(4) Incorporate all mandatory aspects of USACE design guides manuals into all designs.

(5) Coordinate with the RTLP MCX for approval of the construction acquisition methodology.

(6) Coordinate design and construction schedules with the RTLP MCX.

(7) Comply with all RTLP MCX comments relating to the mandatory aspects of the design.

(8) Execute stop work orders on design and construction actions as directed by CEMP-IA and advise on impacts to project execution.

(9) Upon request, provide assistance and guidance to ACOM and installations for developing their Range Development Plan and programming documents preparation (for example, DD Form 1391, ENG Form 3086).

(10) Coordinate with RTLP MCX for scheduling appropriate interface inspections and turnover to the target installer on ranges using Army targetry.

## Appendix A

### References

Army publications can be found at <https://armypubs.army.mil> or <https://www.publications.usace.army.mil/>.

#### A-1. Required References

##### **Army Regulation (AR) 95-2**

Air Traffic Control, Airspace, Airfields, Flight Activities, and Navigational Aids

##### **AR 200-1**

Environmental Protection and Enhancement

##### **AR 210-20**

Master Planning for Army Installations

##### **AR 350-19**

The Army Sustainable Range Program

##### **AR 350-52**

Army Training Support System

##### **AR 385-10**

Army Safety Program

##### **AR 385-63**

Range Safety

##### **AR 415-32**

Special Civil Engineering Engineer Troop Unit Construction in Connection with Training Activities

##### **AR 420-1**

Army Facilities Management

##### **AR 700-127**

Integrated Logistics Support

##### **Department of Defense Manual (DoDM) 5100.76**

Physical Security of Sensitive Conventional Arms, Munition and Explosives, dated February 83 (<https://www.esd.whs.mil/Directives/issuances/dodm/>)

##### **DoDM 6055.9**

DoD Ammunition And Explosives Safety Standards  
(<https://www.esd.whs.mil/Directives/issuances/dodm/>)

## **Range Design Guide**

[\(www.hnc.usace.army.mil/Missions/Installation-Support-and-Programs-Management/Range-and-Training-Land-Program/Range-Design-Guide/\)](http://www.hnc.usace.army.mil/Missions/Installation-Support-and-Programs-Management/Range-and-Training-Land-Program/Range-Design-Guide/)

## **Training Circular (TC) 25–1**

Training Land

## **TC 25–8**

Training Ranges

## **A–2. Related Publications**

### **National Guard (NGR) 415–5**

Army National Guard Military Construction Program Development and Execution  
(<https://www.ngbpmc.ng.mil/>)

### **NGR 415–10**

Army National Guard Facilities Construction (<https://www.ngbpmc.ng.mil/>)

### **National Guard Bureau (NGB) (NGB) PAM 415–5**

Army National Guard Military Construction Program Execution  
(<https://www.ngbpmc.ng.mil/>)