

ER 1110-1-8153
30 June 2010



**US Army Corps
of Engineers®**

ENGINEERING AND DESIGN

MILITARY MUNITIONS SUPPORT SERVICES

ENGINEER REGULATION

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CEMP-RT

Regulation
No. 1110-1-8153

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Engineering and Design
MILITARY MUNITIONS SUPPORT SERVICES

1. Purpose. This regulation establishes responsibilities for the U.S. Army Corps of Engineers (USACE) elements providing Military Munitions Support Services (M²S²)(also referred to as M2S2).
2. Applicability. This regulation applies to all Headquarters, USACE (HQUSACE) elements and all USACE commands having responsibility for performing M²S² programs and/or projects.
3. Distribution. Approved for public release; distribution is unlimited.
4. References. References are listed at Appendix A.
5. Explanation of Abbreviations and Terms. Abbreviations/acronyms used in this regulation are explained in the Glossary.
6. Overview of Military Munitions Support Services.
 - a. M²S² represents the full spectrum of work performed by USACE involving military munitions responses or actions to address unexploded ordnance (UXO), discarded military munitions (DMM), and munitions constituents (MC), including conventional munitions and/or chemical warfare materiel (CWM), range clearance operations and construction, and readiness support. M²S² also includes activities in support of Outside the Continental United States (OCONUS) missions involving munitions (such as those performed in Iraq and Afghanistan).
 - b. The objective of M²S² is to ensure that work is performed safely, consistently, and efficiently in a manner which fosters effective communication among project team members; fully and appropriately utilizes military munitions contracts; advances technology awareness; and reduces total project costs.
 - c. M²S² encompasses the design, execution, research, development, testing, and evaluation components of projects involving military munitions. USACE provides M²S² for work under the following categories:
 - (1) Defense Environmental Restoration Program (DERP) which includes as a subset the Military Munitions Response Program (MMRP). USACE executes projects under the MMRP category for the Formerly Used Defense Sites (FUDS) Program, and as requested for the Active Army, Air Force, National Guard Bureau, and Base Realignment and Closure (BRAC) Program.
 - (2) Operational Range Support, including: range clearances and range assessments.

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(3) Construction Support for: Range and Training Land Program (RTLTP), BRAC and other military construction, Installation Restoration Program (IRP), and Civil Works projects (e.g., dredging projects).

(4) OCONUS Munitions Support.

d. M²S² for FUDS will be completed in accordance with Engineer Regulation (ER) 200-3-1, Formerly Used Defense Sites (FUDS) Program Policy and the USACE Program Management Plan for Implementing the Army Environmental Cleanup Strategic Plan for FUDS.

e. For non-FUDS projects, M²S² will be completed in accordance with the specific program or customer requirements.

7. Overview of the Military Munitions Response Program.

a. A significant amount of M²S² work performed by USACE activities is executed under the MMRP. The MMRP is defined as response actions (i.e., the identification, investigation, and remedial actions, or a combination of removal and remedial actions) to address UXO, DMM and MC. Detailed procedures on the management and execution of all aspects of military munitions response actions are provided in Engineer Pamphlet (EP) 1110-1-18, Military Munitions Response Process.

b. The primary goal of USACE operating under the MMRP is to take those actions necessary to protect human health and the environment from the hazards associated with UXO, DMM, or MC through the implementation of effective, legally compliant, and cost-effective response actions. This goal reflects the statutory mandate of the DERP (Title 10 United States Code [USC] §2701) and the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 USC §9601) to protect human health, welfare, and the environment.

8. Policy.

a. It is the policy of USACE that USACE organizational elements execute M²S² work in accordance with applicable laws, regulations, and policies.

(1) MMRP. M²S² MMRP projects shall be performed in accordance with CERCLA; Executive Order (EO) 12580, Superfund Implementation (January 23, 1987); and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (40 Code of Federal Regulations [CFR] Part 300). Where Resource Conservation Recovery Act (RCRA) Corrective Actions have been implemented, RCRA may apply.

(2) OCONUS Sites. M²S² OCONUS projects shall be performed in accordance with the more stringent of Department of Defense (DoD) or the host nation requirements.

b. M²S² projects will comply with DoD, USACE, and applicable service (Army, Navy, Air Force, National Guard) environmental, safety, and health regulations and procedures, as well as applicable Occupational Safety and Health Administration (OSHA) safety and health regulations.

c. M²S² project activities will be consistent with the USACE Strategic Vision and will be executed in concert with activities presented in other USACE guidance. Relevant technical guidance includes:

(1) ER 200-3-1. This provides requirements for the management and execution of the FUDS Program.

(2) ER 385-1-95, Safety and Health Requirements for Munitions and Explosives of Concern (MEC) Operations. This provides safety and health requirements and responsibilities for MEC operations, military munitions response actions, and any other ammunition and explosives activity.

(3) ER 1110-1-263, Chemical Data Quality Management for Hazardous, Toxic, Radioactive Waste Remedial Activities. This provides requirements for the MC aspects of MMRP.

(4) EP 75-1-2, Munitions and Explosives of Concern (MEC) Support during Hazardous, Toxic, and Radioactive Waste (HTRW) and Construction Activities. This provides requirements for MEC Support during HTRW and Construction Activities.

(5) EP 75-1-3, Recovered Chemical Warfare Materiel Response Process. This provides implementation guidance for military munitions response actions involving CWM.

(6) EP 75-1-4, Five-Year Reviews for Munitions Response Sites. This provides procedural guidance for implementing Five-Year Reviews.

(7) EP 1110-1-18, Military Munitions Response Process. This provides implementation guidance for military munitions response actions.

(8) Engineer Manual (EM) 385-1-97, Explosives – Safety and Health Requirements Manual. This provides procedures for activities and operations involving explosives related work.

(9) EM 1110-1-1200, Conceptual Site Models for Ordnance and Explosives (OE) and Hazardous, Toxic, and Radioactive Waste (HTRW) Activities. This provides procedural guidance to develop Conceptual Site Models at sites potentially containing UXO/ DMM, HTRW, or both.

(10) EM 1110-1-4009, Military Munitions Response Actions. This provides engineering considerations for military munitions response actions.

d. USACE organizations will ensure that all personnel engaged in onsite activities are familiar with and have access to copies of the approved safety plans prepared for the specific-site activities to be conducted. In addition, each organization will ensure that such personnel receive required training, medical surveillance, and personal protective equipment required by the safety plan, contract specifications, OSHA Standards, USACE regulations, and applicable DoD and DA regulations.

e. All USACE organizations conducting M²S² work will coordinate the actions with the customer, appropriate federal, state, tribal, and local governmental agencies and officials, as

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required pursuant to all applicable laws, regulations, EOs, and policies. Any coordination shall be documented for the project record.

f. All USACE elements will ensure that MMRP response actions include provisions for meaningful stakeholder involvement pursuant to all applicable laws, regulations, and policies.

g. The policy of the USACE is to produce products and services that fully meet customers' expectations of quality, timeliness, and cost effectiveness, within the bounds of legal responsibility. An acceptable level of quality does not imply perfection; however, there should be no compromise of functional, health and safety, or environmental requirements. Implementation of ER 5-1-11, U.S. Army Corps of Engineers Business Process, will contribute to achieving this goal.

9. Legal Services. The District which serves as the Project Manager (PM) will provide general legal services.

a. For FUDS projects, the determination of the laws and regulations governing environmental aspects for a specific MMRP project will be made in consultation with the Office of Counsel supporting the Environmental and Munitions Center of Expertise (EM CX). In the event of any sort of dispute with a regulator over the governing laws on a FUDS project, the District providing general legal services, in consultation with the EM CX Office of Counsel, will represent the agency in negotiations or adversary proceedings.

b. For non-FUDS projects performed by USACE, the appropriate legal representative of the sponsoring agency will be the lead counsel for all legal matters, although USACE counsel will be available for consultation.

10. Organizational Structure.

a. Operational Order 2006-43, Military Munitions Support Services, designated a M²S² organizational teaming arrangement which includes: HQUSACE; the Advisory Board, National Program Managers (NPMs), Divisions, PM Districts, Military Munitions Design Centers, Military Munitions Remedial Action District (RADs); the Engineering and Research Development Center (ERDC); the EM CX; and Geographic Districts.

b. The responsibilities of USACE organizations involved in providing M²S² program/project activities are discussed below. A detailed discussion on the specific requirements of each phase of the MMRP is presented in EP 1110-1-18.

c. This document focuses on USACE organizational responsibilities for all types of M²S² activities. A detailed description of the USACE organizational responsibilities for providing M²S² at FUDS is provided in ER 200-3-1.

11. Headquarters, U.S. Army Corps of Engineers.

a. The responsibilities of HQUSACE for M²S² activities include:

(1) Overall program coordination and quality management.

(2) Development of USACE technical and safety guidance.

b. The following HQUSACE organizations have primary responsibility for coordination, management, and oversight of M²S² activities: Environmental Community of Practice (eCoP), eCoP Special Assistant for M²S², and Corps of Engineers Safety and Occupational Health Office (CESO).

(1) eCoP. The eCoP is the HQUSACE organization assigned to coordinate M²S² activities. It has programmatic responsibility to disseminate and coordinate USACE execution policies and procedures with all USACE elements involved in M²S² activities (i.e., safety, engineering, construction, counsel, real estate, public affairs, procurement, financial management, and Army policy or defense policy elements). The eCoP will:

(a) Implement DoD policy for all Army environmental programs.

(b) Coordinate and oversee the execution of environmental cleanup support provided to the DoD and DA.

(c) Oversee and direct EM CX activities.

(d) Provide Command Control over Divisions with program and project management and execution responsibilities.

(e) Provide program direction, guidance, and work assignments in accordance with ER 5-1-10, Corps-Wide Areas of Work Responsibility.

(f) Scope, review, and approve development of MMRP policy, guidance, and criteria documents.

(g) Coordinate M²S² program, project, and policy issues within HQUSACE and with DA and other DoD elements.

(2) eCoP Special Assistant for M²S². The eCoP Special Assistant reports directly to the eCoP Chief and will:

(a) Act as the USACE POC for all M²S² issues.

(b) Ensure implementation of OPOD 2006-43 and/or elevate issues that require involvement of USACE senior leadership.

(c) Track M²S² program size and trends, through coordination with USACE NPMs.

(d) Provide technical and programmatic advice to Chief, eCoP and to USACE senior leadership.

(e) Participate in meetings and face-to-face visits with USACE, DA, and other DoD organizations, regulators, stakeholders, customers, and contractors to stay abreast of and communicate emerging policies, issues, or concerns.

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(f) Coordinate USACE efforts when M²S² assistance is requested from internal and external sources.

(g) Identify common objectives for creating consistency and accountability within M²S² programs.

(h) Plan, coordinate, and facilitate M²S² Advisory Board meetings and act as chair in the absence of the eCoP chief.

(i) Recommend designations for M²S² NPMs as required.

(3) CESO is the HQUSACE point of contact for the explosives safety and occupational health program. CESO has responsibilities that include safety, occupational health, and other supporting issues related to the safe implementation and execution of the M²S² activities under USACE management (i.e., DERP, BRAC, range clearance, etc.). Safety and occupational health requirements for M²S² activities are currently specified in ER 385-1-95, Safety and Health Requirements for Munitions and Explosives of Concern (MEC) Operations, and EM 385-1-97. CESO will:

(a) Oversee the safety and occupational health activities and policy development for M²S² within USACE.

(b) Coordinate the explosives safety and occupational health program and policy issues with higher headquarters and other DoD elements.

(c) Approve Explosives Safety Submissions, Chemical Safety Submissions, Explosive Site Plans, and Chemical Site Plans and forward them to higher headquarters. USACE approval authority has been delegated to the military munitions division of the EM CX.

(d) Review, approve, and disseminate safety and occupational health technical guidance developed by the EM CX or others.

12. Advisory Board. The Advisory Board supports HQUSACE by providing oversight for all M²S² work. It serves in an advisory capacity; thereby, only providing recommendations to HQUSACE on organizational, programmatic, technical and safety issues, policy, resource allocation, and acquisitions. The Advisory Board meets quarterly, or as directed by its Chairperson, to discuss the execution of M²S² projects. The Advisory Board is composed of:

a. Chairperson—eCoP Chief.

b. eCoP Special Assistant for M²S².

c. Representatives from the five Military Munitions Design Centers.

d. Advisors, as needed, from the Military Munitions RADs, Military Munitions NPMs, EM CX, CESO, and ERDC.

13. National Program Managers. The NPM is the USACE corporate face to customers and is responsible for overall program management. Depending on specific assignments, the NPM may

or may not be the National Account Manager who is responsible for management and oversight of program funding (Management and Support or Project) that comes through HQUSACE. The NPM for M²S² programs will:

- a. Act as the USACE Point of Contact for all matters related to the assigned program, and in particular, act as the customer's primary POC.
- b. Regularly solicit feedback on USACE performance from the customer/stakeholders and initiate timely corrective actions as needed.
- c. Be responsible for overall budget and schedule and monitoring obligations and expenditures.
- d. Be knowledgeable of all unique program and/or customer requirements, goals and objectives, performance metrics, and programmatic and technical policies and practices, and communicate these to the Project Delivery Team (PDT) members.
- e. Develop and coordinate USACE staff and resources using authorized Military Munitions Design Centers and Military Munitions RADs to achieve program goals and objectives.
- f. Prepare and maintain a Program Management Plan (PgMP) to document the planned execution and to describe how all work under the program will be coordinated and performed, including how the Project Management District will be assigned. The PgMP will include funding instructions, technical requirements, metrics/objectives, special training requirements if any, and communication plan. Ensure that the communication plan includes a process by which notification is made to affected regional environmental managers (at the Regional Business Centers) when members of the program/project teams are working in their area of responsibility (AOR).
- g. Inform and coordinate major program issues (significant customer issues or DA interests) with the eCoP Special Assistant for M²S². Copy the Special Assistant on regular program updates provided to customers or management and on notices of program reviews.
- h. Support the M²S² Advisory Board Meetings and activities as appropriate and as resources allow.

14. Divisions.

- a. Divisions have overall responsibility for execution of M²S² actions by their PM Districts. For FUDS, refer to ER 200-3-1 for military environmental restoration boundaries for each Division.
- b. Divisions managing M²S² programs may utilize the concept of a Regional Business Center (RBC). As a RBC, each Division Headquarters manages itself and PM Districts, Military Munitions Design Centers, and Military Munitions RADs located within its AOR. The RBC is responsible for M²S² programs within its AOR and providing guidance to its Military Munitions Design Center (MM DC) and RADs. The RBC is responsible for the selection of the PM District for M²S² projects at FUDS and for other programs.

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c. ER 5-1-10 will be followed by all USACE elements when asked to perform work outside their AORs.

15. Project Management Districts.

a. The PM District serves as the overall manager for the lifecycle of assigned projects. PM District responsibilities for M²S² activities include:

- (1) Serving as primary POC for the customer;
- (2) Managing the project budget.
- (3) Monitoring project scope and schedule.
- (4) Leading and coordinating project team members;
- (5) Ensuring proper reporting is conducted.

(6) Upon request from the EM CX, providing a summary of technologies used during each phase of work and whether these technologies or their application (i.e., how they were used) were innovative.

(7) Assuring independent technical review by the PDT prior to submission of documents to the EM CX for review. Submittals to the EM CX will include documents, PDT comments and responses to comments to PDT comments. See EP 1110-1-18 for a list of project documents to be submitted to the EM CX.

- (8) Overseeing quality management.
- (9) Executing the Five-Year Review, as required.

b. PM Districts are assigned to a Division. PM Districts receive projects as follows:

(1) For a FUDS project, the PM District is assigned by the Division/RBC. See ER 200-3-1 for designated FUDS PM Districts.

(2) For other M²S² programs and projects, the PM District is identified as described in the Program Management Plan and coordinated with the appropriate RBC.

c. Appendix B provides detailed requirements for the engagement of a MM DC and/or a Military Munitions RAD when the PM District does not have Design Center or Remedial Action authorities.

16. Military Munitions Design Centers.

a. The role of the MM DC is to address a site's environmental and safety risk associated with the presence of UXO, DMM, and MC. This is accomplished through execution of the CERCLA response process. If the site is not addressed through CERCLA, the PDT will determine the appropriate steps needed to assess and mitigate the risk.

b. There are five Military Munitions Design Centers, four for conventional munitions and one for CWM.

(1) The four Military Munitions Design Centers for conventional munitions, include: Baltimore District (CENAB); Omaha District (CENWO); South Pacific Division Range Support Center (CESPD-RSC); and Huntsville Center (CEHNC).

(2) The MM DC for CWM is located at CEHNC. The CWM Design Center is the only Design Center authorized to execute any phase of a CWM project. Detailed information on the CWM Response process is presented in EP 75-1-3.

c. Military Munitions Design Centers providing M²S² will:

(1) Provide direct support to PM Districts and Military Munitions RADs.

(2) Execute M²S² projects directly for customers from other programs. In these cases, the MM DC is responsible for supporting the PM District with project planning, management, and execution.

(3) Conduct MMRP SI and characterization through the Engineering Evaluation/Cost Analysis (EE/CA) and/or RI/FS.

(4) Design for remedial and removal actions, including those associated with construction support activities.

(5) Prepare Statements of Work, Performance Work Statements, and Independent Government Estimates.

(6) Award, administer, and oversee contracts for design services (i.e., Site Inspection [SI], EE/CA, Remedial Investigation/Feasibility Study [RI/FS], and Removal/Remedial Design).

(7) Contract for remedial/removal actions or assist the RAD in contracting for removal/remedial actions, including those associated with construction support activities.

(8) Review and approve project deliverables and contractors' performance.

(9) Recommend changes in criteria, policy, or standards to the EM CX.

(10) Report projects/funding status to PM Districts.

(11) Coordinate all activities with the PM District.

(12) Provide Public Affairs support to PM District, as requested.

(13) Contracting responsibilities include:

(a) Evaluating contract requirements and soliciting and awarding munitions response contracts as needed for munitions response project actions. Items to consider include customer needs, project workload, reasonable contingencies for unknown requirements, resources available within the government, and bidder qualifications.

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(b) When awarding new contracts, the MM DC is required to include the EM CX in the review process to ensure incorporation of current guidance or developments concerning explosives safety considerations, technology, worker qualifications, etc.

(c) When the MM DC awards a stand-alone contract, full contracting authority may be transferred to the District. When awarding a task order to an established MM DC Indefinite Delivery Order contract, the District must agree to the management controls and reporting mechanisms established by the MM DC Contracting Officer/Contracting Officer's Representative. See Appendix B for additional information on the required coordination.

17. Military Munitions Remedial Action Districts.

a. There are ten (10) authorized Military Munitions RADs. These include: Baltimore (CENAB); Omaha (CENWO); Fort Worth (CESWF); Louisville (CELRL); Los Angeles (CESPL); Mobile (CESAM); Sacramento (CESPK); Savannah (CESAS); Honolulu (CEPOH); and the Huntsville Center (CEHNC).

b. Military Munitions RADs perform remedial or removal actions for M²S² projects to reduce the environmental and safety risks associated with the presence of UXO, DMM, or MC at a site. Military Munitions RADs performing M²S² will:

(1) Assist HQUSACE, Divisions, Military Munitions Design Centers, and field operating activities.

(2) Maintain technical expertise to execute all aspects of field operations for removal and remedial actions.

(3) Prepare budget and schedule for work to be performed and provide this information to the PM District, as requested.

(4) Prepare MMRP remedial action or removal action acquisition strategies.

(5) Contract for and conduct remedial or removal actions at MMRP projects. The Military Munitions RAD must ensure new basic contract solicitations have been reviewed by the EM CX to ensure incorporation of current guidance or developments concerning explosives safety considerations, technology, worker qualifications, etc.

(6) Execute administrative and field contract modifications not affecting the design.

(7) Provide quality assurance, contract surveillance, and safety oversight in accordance with contract provisions.

(8) Review and approve project deliverables and contractors' performance.

(9) Coordinate all contract modifications affecting the design with the appropriate MM DC before implementing the change.

(10) All contracts and task orders for anomaly avoidance or construction support activities must be coordinated with a Military Munitions Design Center.

- (11) Review and approve selected project documents in accordance with EP 1110-1-18.
- (12) Recommend changes needed for policy and standards to the EM CX.
- (13) Report project and funding status to PM Districts.
- (14) Coordinate all activities on M²S² projects with the PM District.
- (15) Obtain engineering and design assistance from the appropriate MM DC for EE/CA, RI/FS, and removal or remedial design functions.
- (16) Provide public affairs support to the PM District, as requested.

18. Engineering and Research Development Center. The ERDC will:

- a. Conduct research, development, test, and evaluation (RDT&E) activities in support of munitions response activities involving UXO, DMM, and MC.
- b. Provide technical assistance to USACE divisions, project management districts, MM Design Centers, MM RADs.
- c. Support the Advisory Board and provide periodic updates on status of RDT&E activities involving UXO, DMM, and MC.

19. Environmental and Munitions Center of Expertise.

a. The EM CX assists all USACE organizational elements in performing M²S² activities. The EM CX does not execute M²S² projects, but provides state-of-the-art technical expertise in all aspects of military munitions response to HQUSACE, Divisions, PM Districts, Military Munitions Design Centers, Military Munitions RADs, and the RTLP MCX. The EM CX is a Huntsville Center organization with personnel stationed in Omaha, Nebraska and Huntsville, Alabama.

b. Responsibilities of the EM CX for the M²S² activities include:

- (1) After independent review by the PDT, the EM CX will review or monitor documents in accordance with EP 1110-1-18.
- (2) Review Federal, DoD, and HQDA environmental and munitions regulations and prepare/review formal and informal guidance.
- (3) Maintain contract technical requirements (e.g., Data Item Descriptions) to be included in M²S² contracts, as appropriate. EM CX personnel are available to participate in the Contract Review Board process for award of munitions response contracts and/or review of contract packages, as requested.
- (4) Provide munitions response, regulatory and legal training/mentoring.
- (5) Review, evaluate, and support technology initiatives and implementation.

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(6) Maintain a point of contact for CWM matters and, on behalf of HQUSACE, conduct Pre-Operational Surveys and participate in Tabletop Exercises


(7) Serve as technical manager for HQUSACE directed project/programs (e.g., FUDS MMRP SI Program).

(8) Conduct periodic reviews of USACE organizations conducting M²S² work.

20. Geographic District. Should a customer contact a geographic district for M²S² services, the geographic district must coordinate the M²S² services with the appropriate USACE organizations that are authorized to conduct M²S² projects (i.e., RAD, Military Munitions Design Center). See Appendix B for additional information on the required coordination.

FOR THE COMMANDER:

2 Appendices
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STEPHEN L. HILL
Colonel, Corps of Engineers
Chief of Staff

APPENDIX A

References

40 CFR Part 300 EPA National Oil and Hazardous Substance Pollution Contingency Plan.

10 USC 172, Ammunition Storage Board.

10 USC 2701 et seq., Defense Environmental Restoration Program, PL 99-499, Section 211, 100 Stat 1719.

42 USC 6901, et. seq., Resource Conservation and Recovery Act (RCRA) of 1976, PL 94-580, 90 Stat 2796, as amended.

42 USC 9601, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 as amended, PL 96-510, 94 Stat 2767.

Executive Order 12580 as amended, Superfund Implementation, January 23, 1987.

DoD 4165.66-M, Base Redevelopment and Realignment Manual.

DoD Directive 4715.11, Environmental and Explosives Safety Management on Operational Ranges within the United States.

DoD 6055.09-STD, Ammunition and Explosives Safety Standards.

DoD Management Guidance for the Defense Environmental Restoration Program.

DoD Memorandum. Subject: Policy on Land Use Controls Associated with Environmental Restoration Activities.

DoD Munitions Response Site Prioritization Protocol Final Rule.

DoD Munitions Response Site Prioritization Protocol Primer Draft.

DoD Memorandum. Subject: Interim Policy for Defense Environmental Restoration Program (DERP) Eligibility.

DDESB DoD Instruction 4140.62 Management and Disposition of Material Potentially Presenting an Explosive Hazard (MPPEH).

DDESB Technical Paper (TP) 18 Minimum Qualifications for Unexploded Ordnance Technicians and Personnel.

DDESB Technical Paper (TP) 16 Methodologies for Calculation Primary Fragment Characteristics.

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Army Defense Environmental Restoration Program Management Guidance for Active Installations.

Army Defense Environmental Restoration Program Management Guidance for BRAC Installations.

Army Environmental Cleanup Strategic Plan.

Army RI/FS Guidance.

AR 75-14 Interservice Responsibilities For Explosive Ordnance Disposal.

AR 75-15 Policy for Explosive Ordnance Disposal.

AR 190-11 Physical Security of Arms, Ammunitions, and Explosives.

AR 200-1 Environmental Protection and Enhancement.

AR 210-20 Real Property Master Planning for Army Installations.

AR 385-10 The Army Safety Program.

AR 385-61 Army Chemical Agent Safety Program.

DA Pam 200-1, Environmental Protection and Enhancement.

DA Pam 385-61, Toxic Chemical Agent Safety Standards.

DA Pam 385-63, Range Safety.

DA Pam 385-64, Ammunition and Explosives Safety Standards.

DA Pam 385-65, Explosive and Chemical Site Plan Development and Submission.

U.S. Army TM 9-1300-214, Military Explosives.

U.S. Army TM 60A-1-1-31, EOD Disposal Procedures.

Department of the Army Memorandum Trial Use of the Munitions and Explosives Hazard Assessment (MEC HA) Methodology.

ER 5-1-10, Corps-Wide Areas of Work Responsibility.

ER 5-1-11, U.S. Army Corps of Engineers Business Process.

ER 200-3-1, Formerly Used Defense Sites (FUDS) Program Policy.

ER 385-1-95, Safety and Health Requirements for Munitions and Explosives of Concern (MEC) Operations.

ER 1110-1-263, Chemical Data Quality Management for Hazardous, Toxic, Radioactive Waste Remedial Activities.

EP 75-1-2, Munitions and Explosives of Concern (MEC) Support during Hazardous, Toxic, and Radiological Waste (HTRW) and Construction Activities.

EP 75-1-3, Recovered Chemical Warfare Materiel Response Process.

EP 75-1-4, Five-Year Reviews for Munitions Response Sites.

EP 1110-1-18, Military Munitions Response Process.

EM 385-1-97, Explosives – Safety and Health Requirements Manual.

EM 1110-1-1200, Conceptual Site Models for Ordnance and Explosives (OE) and Hazardous, Toxic and Radioactive Waste (HTRW) Projects.

EM 1110-1-4009, Military Munitions Response Actions.

Fragmentary Order (FRAGO) 23 (Changes to Military Munitions Support Services) to OPOD 2008-21 (FY09 Military Programs Execution).

Operational Order 2006-43, Military Munitions Support Services.

USACE Program Management Plan for Implementing the Army Environmental Cleanup Strategic Plan for FUDS.

APPENDIX B

Execution of Military Munitions Projects

Design Activities

Any district that is not an authorized Military Munitions Design Center (MM DC) must engage the services of a MM DC to perform/execute projects involving military munitions. The Chemical Warfare Design Center, U.S. Army Engineering and Support Center, Huntsville, is the only design center authorized to execute CWM projects.

For projects involving design work (e.g., SIs, risk assessments, EE/CAs, RI/FSs, remedial designs, decision documents, and proposed plans), the authority and responsibility to execute the design work will be assigned to a MM DC, regardless of where the contract is held. The Project Manager will assemble a project delivery team that includes technical staff, including a technical team leader, from a MM DC that will be responsible for the following activities:

1. Preparing statements of work and performance work statements.
2. Preparing independent government estimates and/or cost analyses.
3. Evaluating technical and cost proposals for contract actions.
4. Providing day-to-day technical administration of contracts/task orders.
5. Providing quality assurance, contract surveillance, and safety oversight in accordance with contract provisions.
6. Advising the contracting officer on the technical adequacy of the contractor's products or performance.

The MM DC supporting the PM District must be provided written authority commensurate with the responsibilities listed above; i.e., technical control of the project will be assigned to MM DC personnel. Authority may come in the form of Procuring Contracting Officer authority, Administrative Contracting Officer authority, or Contracting Officer Representative (COR) authority of the contract used to execute the work. The authorities and specific responsibilities, including those listed above, will be documented in the Project Management Plan and in Contracting Officers letters or memoranda of delegation, as applicable.

Removal and Remedial Actions

Military Munitions Remedial Actions include removal or remedial actions that are implemented in accordance with a decision document, (e.g., DERP projects), or to support construction or maintenance activities (e.g., footprint clearance for range construction, surface or subsurface range clearances). Any district that is not an authorized Military Munitions Remedial Action District (RAD) must engage the services of a RAD to perform/execute remedial projects involving military munitions. The RAD will be assigned responsibilities and provided appropriate authority within the PDT to perform the following activities related to the remedial action:

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1. Providing day-to-day technical administration of contracts/task orders.
2. Providing quality assurance, contract surveillance, and safety oversight in accordance with contract provisions.
3. Advising the contracting officer on the technical adequacy of the contractor's products or performance.

The RAD, if not also a MM DC, will engage the services of a MM DC as described above, to achieve the project design.

Contracts

Although MM DCs maintain their own contracts, the specific contract used to perform design or remedial work may be owned by another Government agency or Corps District. However, these contract vehicles will be used only if they can be structured to contain the necessary quality and safety provisions that exist in MM DC contracts and if use of the contract is in the best interest of the customer.

Teaming Arrangements

The MM DC or RAD may choose to utilize services of other Corps Districts to discharge selected portions of the design and/or remedial duties, but the MM DC or RAD is fully responsible and accountable for the outcome and must be in operational control of virtual resources. The MM DC or RAD must have the authority to replace/reassign those resources if needed for successful project accomplishment. A RAD may provide team members to support the MM DC if they have the required expertise and qualifications. However, the technical lead for design work must be on the staff of a MM DC and the technical lead for remedial action work must be on the staff of a RAD.

GLOSSARY

Section I Abbreviations/Acronyms

AOR
Area of Responsibility

AR
Army Regulation

BD/DR
Building Demolition/Debris Removal

BRAC
Base Realignment and Closure

CEHNC
Corps of Engineers - Huntsville Center

CELRL
Corps of Engineers – Louisville District

CENAB
Corps of Engineers – Baltimore District

CENWO
Corps of Engineers – Omaha District

CEPOH
Corps of Engineers – Honolulu District

CERCLA
Comprehensive Environmental Response, Compensation, and Liability Act

CESAM
Corps of Engineers – Mobile District

CESAS
Corps of Engineers – Savannah District

CESPD
Corps of Engineers – South Pacific Division

CESPD-RSC
Corps of Engineers – South Pacific Division Range Support Center

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CESO

Corps of Engineers Safety and Occupational Health Office

CESPK

Corps of Engineers – Sacramento District

CESPL

Corps of Engineers – Los Angeles District

CESWF

Corps of Engineers – Fort Worth District

CFR

Code of Federal Regulations

COR

Contracting Officer Representative

CWM

Chemical Warfare Materials

DA

Department of the Army

DA Pam

Department of the Army Pamphlet

DERP

Defense Environmental Restoration Program

DMM

Discarded Military Munitions

DoD

Department of Defense

eCoP

Environmental Community of Practice

EE/CA

Engineering Evaluation/Cost Analysis

EM

Engineer Manual

EM CX

Environmental and Munitions Center of Expertise

EO
Executive Order

EP
Engineer Pamphlet

ER
Engineer Regulation

ERDC
Engineer Research and Development Center

FS
Feasibility Study

FUDS
Formerly Used Defense Site

HTRW
Hazardous, Toxic, and Radioactive Waste

HQUSACE
Headquarters, U.S. Army Corps of Engineers

IRP
Installation Restoration Program

MC
Munitions Constituents

MCX
Mandatory Center of Expertise

MEC
Munitions and Explosives of Concern

MM DC
Military Munitions Design Center

MMRP
Military Munitions Response Program

M²S²
Military Munitions Support Services

NCP
National Oil and Hazardous Substances Pollution Contingency Plan

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NPM

National Program Manager

OCONUS

Outside the Continental United States

OE

Ordnance and Explosives

OSHA

Occupational Safety and Health Administration

PDT

Project Delivery Team

PgMP

Program Management Plan

PM

Project Manager

RAD

Remedial Action District

RBC

Regional Business Center

RCRA

Resource Conservation and Recovery Act

RDT&E

Research, Development, Test, and Evaluation

RI

Remedial Investigation

RTLTP

Range and Training Lands Program

U.S.

United States

USACE

U.S. Army Corps of Engineers

USC

United States Code

UXO
Unexploded Ordnance

Section II

Terms

See EP 1110-1-18.