Army Regulation 702–16

Product Assurance

Chemical Biological Defense Materiel Reliability Program

Headquarters
Department of the Army
Washington, DC
23 January 2023

UNCLASSIFIED

SUMMARY of CHANGE

AR 702–16
Chemical Biological Defense Materiel Reliability Program

This expedited revision, dated 23 January 2023—

- Clarifies responsibilities for Deputy Chief of Staff, G–4 (para 1–4*b*).
- Clarifies responsibilities for Commanding General, U.S Army Materiel Command (para 1–4*c*).
- Add records management requirements (para 1–5).
- Revises and clarifies subprograms within the Chemical Biological Defense Materiel Reliability Program element Shelf-Life Function Test Program, specifically for non-laboratory testing associated with shelf-life function, and maintenance of unit or organizational stock (para 2–2*b*(2)).
- Updates references, office symbols, and points of contact (throughout).

Headquarters
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23 January 2023

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Effective 23 February 2023

Product Assurance

Chemical Biological Defense Materiel Reliability Program

By Order of the Secretary of the Army:

JAMES C. MCCONVILLE
General, United States Army
Chief of Staff

Official:

MARK F. AVERILL
Administrative Assistant to the Secretary of the Army

History. This publication is an expedited revision.

Summary. This regulation establishes policy, designates responsibilities, and provides guidance for managing the Chemical Biological Defense Materiel Reliability Program.

Applicability. This regulation applies to the Regular Army, the Army National Guard/Army National Guard of the United States, and the U.S. Army Reserve, unless otherwise stated.

Proponent and exception authority. The proponent of this regulation is the Deputy Chief of Staff, G–4. The proponent has the authority to approve exceptions or waivers to this regulation that are consistent with controlling law and regulations. The proponent may delegate this approval authority, in writing, to a division chief within the proponent agency or its direct reporting unit or field operating agency in the grade of colonel or the civilian equivalent. Activities may request a waiver to this regulation by providing justification that includes a full analysis of the expected benefits and must include formal review by the activity's senior legal officer. All waiver requests will be endorsed by the commander or senior leader of the requesting activity and forwarded through higher headquarters to the policy proponent. Refer to AR 25–30 for specific requirements.

Army internal control process. This regulation contains internal control provisions in accordance with AR 11–2 and identifies key internal controls that must be evaluated (see appendix B).

Supplementation. Supplementation of this regulation and establishment of command and local forms is prohibited without prior approval from the Deputy Chief of Staff, G–4 (DALO–MPI), 500 Army Pentagon, Washington, DC 20310–0500, or at usarmy.pentagon.hqda-dcs-g-4.mbx.publications@mail.mil.

Suggested improvements. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to the Deputy Chief of Staff, G–4 (DALO–MPI), 500 Army Pentagon, Washington, DC 20310–0500, or at usarmy.pentagon.hqda-dcs-g-4.mbx.publications@mail.mil.

Distribution. This publication is available in electronic media only and is intended for the Regular Army, the Army National Guard/Army National Guard of the United States, and the U.S. Army Reserve.

Contents (Listed by paragraph and page number)

*This publication supersedes AR 702–16, dated 2 May 2016.

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Contents—Continued

Chapter 1
Introduction

1–1. Purpose
This regulation establishes Army policy, responsibilities, and guidance for the Chemical Biological Defense Materiel Reliability Program (CBDMRP). Any equipment used by Soldiers or personnel while performing their duties in a chemically or biologically hazardous or contaminated area falls under the provision of the CBDMRP. This includes chemical and biological agent detectors, individual chemical and biological protective equipment, collective protective equipment, and decontamination equipment.

1–2. References and forms
See appendix A.

1–3. Explanation of abbreviations and terms
See the glossary.

1–4. Responsibilities
a. Principal officials of Headquarters, Department of the Army, and the Director of Army Safety will manage and supervise staff within their functional areas to support the CBDMRP.

b. The Deputy Chief of Staff, G–4, will—

(1) Advise the Assistant Secretary of the Army (Acquisition, Logistics, and Technology) (ASA (ALT)) and the Assistant Secretary of the Army (Installations, Energy, and Environment) (ASA (IE&E)) on the development of CBDMRP policy.

(2) Implement safety and health program requirements, risk assessments, and hazard controls applicable to chemical biological defense materiel (CBDM), as prescribed by the Office of the Director of Army Safety and the Surgeon General.

(3) Review, program, and approve funds to conduct the CBDMRP and include these requirements in the Army Materiel Plan.

c. The Commanding General, U.S. Army Materiel Command, will—

(1) Provide command oversight, direction, guidance, and assistance as necessary to ensure compliance with the provisions of this regulation.

(2) Assist the ASA (ALT) in establishing procedures to—

(a) Implement the CBDMRP, in coordination with those Department of Defense (DoD) activities that have CBDM, including training courses, testing procedures, report dissemination, and corrective actions to deficiencies in the CBDM stock.

(b) Determine if there is a need to extend the shelf-life of a CBDM item.

(c) Determine if CBDM is meeting established serviceability requirements.

(d) Use surveillance review and testing procedures for those activities that require such.

(e) Improve the CBDMRP process and requirement determination procedures to ensure visibility, accountability, and physical security risks reduction for CBDM inventories per Army Regulation (AR) 710–1 and AR 740–26.

(3) Use the Mobility Inventory Control Accountability System—Web as the interim software application for providing asset visibility and managing shelf-life data until the full deployment of the Single Army Logistics Enterprise to include the Logistics Modernization Plan and the Global Combat Support System—Army, per AR 700–146.

(4) Use the Logistics Modernization Plan at the national inventory control point level as the system of record for materiel management to provide asset visibility and shelf-life management until full deployment of the Single Army Logistics Enterprise (see para 1–4*c*(3)).

(5) Assign the responsible primary inventory control activity as the CBDMRP manager for the sustainment phase of life-cycle management of all Army-managed CBDM assets.

(6) Ensure—

(a) CBDM meets established safety and reliability requirements.

(b) CBDM is managed, maintained, and updated per the Shelf-life Function Test Program (SFTP), as outlined in paragraph 2–2*b*.

(c) CBDM data (for example, serviceability, condition, shelf-life extension, and disposition) for Army-managed CBDM is documented and available in the Mobility Inventory Control Accountability System, to help ensure product assurance standards and quality compliance.

(d) CBDM items are entered into the CBDMRP, maintained, retrograded, and disposed of per this regulation and applicable policies, directives, or program scheduling.

(e) Laboratory testing is performed by engineering support activity (ESA) certified laboratory facilities and is conducted per this regulation, applicable supply bulletins (SBs), or ESA-approved testing operating procedures.

(f) Activities that manage CBDM comply with material management policies.

(7) Assign a CBDMRP manager who will—

(a) Develop and submit funding requirements into the program objective memorandum, Army working capital fund (AWCF), or operation and maintenance, Army (OMA) program funds to manage the Army CBDMRP.

(b) Coordinate with the responsible ESA to obtain technical and engineering support as needed to support the CBDMRP and SFTP.

(c) Annually inspect facilities storing CBDM to ensure CBDM is being properly managed and maintained to meet serviceability standards as outlined in applicable SBs or storage directives.

(d) Identify and document deficiencies. Provide leadership with a detailed report of all deficiencies noted during the inspection. Provide assistance to the storage activity as needed to restore the CBDM to serviceable condition.

(e) Schedule and conduct follow-up inspections as necessary to confirm discrepancies have been corrected.

1–5. Records management (recordkeeping) requirements

The records management requirement for all record numbers, associated forms, and reports required by this publication are addressed in the 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 DA Pam 25–403 for guidance.

Chapter 2
Chemical Biological Defense Materiel Reliability Program Objectives, Elements, and Funding

2–1. Objectives

The CBDMRP is used to—

a. Comply with applicable reliability or product assurance standards and regulations.

b. Provide annual status updates on the condition of CBDM in storage to the CBDMRP manager in accordance with 1–4*c*(7).

c. Provide timely and accurate data for acquisition and logistics planning.

d. Identify CBDM or care of supplies in storage (COSIS), scheduled maintenance, testing, retrograde, or disposal as needed to maintain serviceability of CBDM.

e. Assign priority-of-issue for CBDM or restrict the use of CBDM with marginal reliability or performance.

f. Manage and administer the SFTP.

g. Investigate and establish the root cause of CBDM deficiencies or materiel degradation.

h. Take corrective actions necessary to maintain CBDM stock at a serviceable condition.

i. Ensure the accuracy of the stock locator system and inventory stock balances.

j. Effectively manage CBDM shelf life items per applicable DoD policy and/or SBs.

k. Identify CBDM subjected to unsatisfactory or abnormal conditions for potential shelf-life testing.

2–2. Elements

The CBDMRP consists of two core elements: Chemical Biological Defense Materiel Surveillance Program (CBDMSP) and CBDM SFTP.

a. The CBDMSP is used to—

(1) Ensure suitable storage facilities and equipment are available, are maintained, and meet all applicable Army safety and reliability standards.

(2) Provide guidance to facilities storing CBDM and takes corrective actions, as required, to maintain CBDM stock in satisfactory conditions.

(3) Annually inspect CBDM storage facilities to ensure proper management. The process includes documenting deficiencies and developing corrective action plans.

(4) Provide guidance to ensure compliance with this regulation and stock readiness objectives stated in AR 740–3. Trained CBDM inspectors will perform these inspections under the oversight of a quality assurance specialist assigned to storage, issue, or test activities to ensure—

(a) That all CBDM is packaged and labeled per Military Standard (MIL–STD) 129R with change 2 and MIL–STD 130N with change 1 and that all CBDM meets materiel serviceability and shelf-life requirements. This includes proper storage and maintenance of materiel in ready-for-issue condition, per DoD Manual (DoDM) 4140.27 and Defense Logistics Agency Regulation (DLAR) (JP) 4155.37.

(b) That all Army activities that have a receipt, storage, issue, maintenance, surveillance, or test mission for CBDM are inspected annually. At a minimum, CBDM inspectors will perform but are not limited to the following actions:

1. Verify prompt and accurate recording of all CBDM in storage and changes in materiel serviceability or condition.
2. Ensure CBDM assets that are suspended or pending disposition are properly segregated from serviceable stock and properly labeled to reflect the materials' conditions, identification, and status.
3. Ensure prompt processing of any materiel deficiency report or supply deficiency report and of primary-inventory-control-activity requested materiel disposition.
4. Ensure cyclic inspections and COSIS procedures, to identify deficiencies in preventing deterioration of CBDM in storage.
5. Identify CBDM subjected to unsatisfactory or abnormal conditions for potential shelf-life testing.
6. Perform follow-up inspections to ensure corrective actions are compliant in all areas.
7. Ensure, when the CBDMRP manager receives shelf-life test results, that he or she notifies the national inventory control point to update the data, to reflect the item's new status.

b. CBDM SFTP—

(1) The CBDMRP manager administers the SFTP. Its purpose is to determine the functional reliability and confirm shelf or service life of CBDM. Function testing evaluates design characteristics of critically deteriorating components of CBDM to detect trends in materiel degradation and assesses the life cycle performance of CBDM items requiring special facilities and equipment for testing.

(2) The SFTP consists of the following subprograms:

(a) Laboratory testing. ESA-certified laboratories perform shelf-life function tests, the results of which require analysis by the ESA to determine serviceability, shelf life extension, or disposal action. Laboratory testing encompasses both chemical agent and physical properties testing. All testing preformed will be in accordance with applicable SBs or ESA-approved test plans. Each test is performed for a particular CBDM production lot, and the test result is applied to the entire lot, regardless of ownership and location. Results of testing will be dispatched to all organizations by the CBDMRP manager.

(b) Non-laboratory testing. This testing is conducted at depots of other storage activities. This shelf-life function testing pertains to the maintenance of CBDM in storage and ensures stock is serviceable and maintained in a ready-to-issue condition at all times. This type of testing consists of physical properties testing only. No chemical agent is used. This testing is to confirm the physical characteristics of the materiel and the material ability to continue to be used for its intended purpose. Only ESA-trained and certified QA personnel are permitted to conduct this testing. MQCSS and/or applicable SBs will be used to administer this type of testing. Shelf-life extension will be applied to extend only those lots that are physically located at the depot or storage activity.

(c) Function tests at chemical biological defense materiel storage activities. This testing program, which pertains to the maintenance of CBDM in storage, ensures that COSIS inspections are conducted and that serviceable items are maintained in ready-for-issue condition. This program includes the classification of CBDM stock into representative segments (for example, by production lots, period of production, manufacturer, storage areas, or climatic conditions). Samples from these segments are then selected, inspected or tested, and evaluated for reliability, performance, and serviceability of the CBDM, as directed by the CBDMRP manager.

(d) Maintenance of unit or organizational stock. This pertains to the inspection and maintenance of CBDM stock where the unit-of-issue package is opened, introduced to mission requirements, installed into intended application, or entered service life. Assets in service life are not eligible for shelf life extension. Units and organizations will consult serviceability standards contained in the MQCSS or applicable technical manual when inspecting this materiel. This type of inspection is performed on a cyclical basis to confirm serviceability of the materiel for continued use only.

2–3. Funding for the Chemical Biological Defense Materiel Reliability Program

The CBDMRP uses appropriated Army funds for CBDM per DoD Financial Management Regulation (DoD FMR) 7000.14–R and authorizing statute(s). No requirements prescribed of guidance discussed in this paragraph should be interpreted to limit, expand, or otherwise depart from applicable statutory or DoD regulatory authorities.

a. Funding for the Chemical Biological Defense Materiel Surveillance Program. This program is performed as part of the normal storage functions that CBDM storage installations carry out to execute their wholesale supply mission. The wholesale supply mission includes inspections and tests to validate the supply readiness of CBDM and components: preservation, packaging, and packing performed during receipt, storage, issue, and shipment. Included are cyclic inspections to verify the serviceability and or shelf-life of CBDM items and components in the wholesale inventory. The CBDMSP also applies to Army War Reserve stock.

(1) Army organizations that own CBDM stored at non-Army storage installations normally provide the storing installations OMA funds to perform required surveillance functions for Army-owned CBDM.

(2) OMA or AWCF normally fund both verification inspections and tests performed as part of depot-level maintenance activities.

b. Funding for the Shelf-life Function Test Program. This function test program includes material, physical, and chemical property testing, agent testing, and other testing performed by laboratories and CBDM storage installations to verify, extend, or not extend the shelf-life for all CBDM items. The responsible Life Cycle Management Command (LCMC) will normally use AWCF or OMA funds to finance the CBDM laboratory testing programs and noncyclical function tests.

(1) The Army's CBDM storage depots normally receive OMA funds, through the LCMC, to perform COSIS actions for all Army-owned CBDM.

(2) The responsible LCMC will normally obtain funding from non-Army sources for shelf-life testing of CBDM that is not part of the Army inventory. The Army will review and evaluate requests to test Army-managed CBDM received from non-Army organizations and approve or disapprove requests, as applicable.

(3) AWCF will not be used to fund CBDMRP for sales under the Foreign Military Sales (FMS) program. For items requiring SFTP, the FMS program manager will identify funding for shelf-life testing.

(4) The responsible program manager or item developer will use research, development, test, and evaluation funds to finance all required shelf-life activities (for example, developing initial shelf-life specifications, identifying shelf-life limiting components, developing initial shelf-life criteria and test and/or inspection protocols, and developing specialized shelf-life test equipment) prior to fielding the item. Review shelf-life activities as part of the criteria for program milestone decisions prior to commencement of initial CBDM production.

Appendix A

References

Section I

Required Publications

Unless otherwise indicated, all Army publications are available on the Army Publishing Directorate website at https://armypubs.army.mil.

AR 710–1
Centralized Inventory Management of the Army Supply System (Cited at para. 1–4*c*(2)(*e*).)

AR 740–3 (DLAR (JSR) 4145.04/AFMAN 23–125/NAVSUPINST 4400.100B/MCO 4450.15B)
Stock Readiness (Cited at para. 2–2*a*(4).)

AR 740–26
Physical Inventory Control (Cited at para. 1–4*c*(2)(*e*).)

DLAR (JP) 4155.37 (AR 702–18/NAVSUPINST 4410.56B/AFMAN 23–232 (IP)/MCO 4450.13B)
Department of Defense Shelf Life Materiel Quality Control Storage Standards (Available at https://www.dla.mil.) (Cited at para. 2–2*a*(4)(*a*).)

DoD 7000.14–R
Department of Defense Financial Management Regulation (FMR) (Available at https://comptroller.defense.gov/fmr/.) (Cited at para. 2–3)

DoDM 4140.27, Volumes 1 and 2
DoD Shelf-Life Management Program (Available at https://www.esd.whs.mil/.) (Cited at para. 2–2*a*(4)(*a*).)

Section II

Related Publications

A related publication is a source of additional information. The user does not have to read it to understand this publication. Unless otherwise indicated, publications are available on the Army Publishing Directorate website at https://armypubs.army.mil/.

AR 11–2
Managers' Internal Control Program

AR 25–30
Army Publishing Program

AR 385–10
The Army Safety Program

AR 700–146
Individual Chemical Equipment Management Program

DA Pam 25–403
Guide to Recordkeeping in the Army

DoDI 3150.09
The Chemical, Biological, Radiological, and Nuclear Survivability Policy

DoDM 4140.01, Volume 5
DoD Supply Chain Materiel Management Procedures: Delivery of Materiel (Available at https://www.esd.whs.mil/.)

MIL–STD–129R with Change 2
Military Marking for Shipment and Storage (Available at https://quicksearch.dla.mil/.)

MIL–STD–130N with Change 1
Identification Marking of U.S. Military Property (Available at https://quicksearch.dla.mil/.

Section III

Prescribed Forms

This section contains no entries.

Section IV

Referenced Forms

Unless otherwise indicated, forms are available on the Army Publishing Directorate website at https://armypubs.army.mil.

DA Form 11–2
Internal Control Evaluation Certification

DA Form 2028
Recommended Changes to Publications and Blank Forms

Appendix B

Internal Control Evaluation

B–1. Function

The function covered by this evaluation is the management of the Army's CBDMRP.

B–2. Purpose

The purpose of this evaluation is to assist CBDMRP managers in evaluating the key internal controls listed. It is intended as a guide and does not cover all controls.

B–3. Instructions

Base answers on the actual testing of key internal controls (for example, document analysis, direct observation, interviewing, sampling, simulation, or other). Explain answers that indicate deficiencies and the corrective action identified in supporting documentation. Evaluate these key internal controls at least once every five years. Certify that this evaluation has been conducted on a DA Form 11–2 (Internal Control Evaluation Certification).

B–4. Test questions

a. Does CBDM entering into or already in storage meet established safety and reliability requirements?

b. Do the conditions and reliability trends of CBDM provide an estimate of the current storage condition?

c. Are CBDM items maintained, retrograded, or disposed of in a timely manner?

d. Is priority-of-issue assigned per deployment and/or fielding requirements?

e. Are CBDM items designated with marginal reliability or performance restricted for use?

f. Is shelf-life established, confirmed, or, when warranted, extended?

g. Is the cause of a CBDM deficiency found by a CBDMRP investigation?

h. When unsatisfactory conditions exist, are corrective actions established to restore the CBDM to a satisfactory condition?

i. Is there a basis for a formal evaluation of equipment systems' life expectancies that might need to be adjusted?

j. Is the lab or testing facility and test equipment certified by the appropriate certification program or to the standard for required level of CBDM function testing being performed?

k. Is shelf-life information on CBDM stocks maintained, updated, and accessible to CBDM users?

l. Are required resources available to manage and provide for testing of CBDM?

m. Does quality deficiency reporting, corrective action requests, and/or responses, including follow-up and closure reports, meet the intent of the referenced Army assurance requirements?

B–5. Supersession

This evaluation replaces the evaluation for management of the Army's CBDMRP, previously published in AR 702–16, dated 2 May 2016.

B–6. Comments

Help make this a better tool for evaluating internal controls. Submit comments to Deputy Chief of Staff, G–4 (DALO–MPI), 500 Army Pentagon, Washington, DC 20310–0500, or at usarmy.pentagon.hqda-dcs-g-4.mbx.publications@mail.mil.

Glossary

Section I

Abbreviations

AR
Army regulation

ARIMS
Army Records Information Management System

AWCF
Army working capital fund

CBDM
chemical biological defense materiel

CBDMRP
Chemical Biological Defense Materiel Reliability Program

CBDMSP
Chemical Biological Defense Materiel Surveillance Program

COSIS
care of supplies in storage

DA
Department of the Army

DLAR
Defense Logistics Agency regulation

DoD
Department of Defense

DoDM
Department of Defense Manual

ESA
engineering support activity

LCMC
Life Cycle Management Command

MIL–STD
military standard

OMA
operation and maintenance, Army

RRS–A
Records Retention Schedule—Army

SB
supply bulletin

SFTP
Shelf-life Function Test Program

Section II

Terms

chemical biological defense materiel
Any equipment used by DoD personnel to perform their duties in a chemically or biologically hazardous or contaminated area including protective clothing, shelters, masks, detectors, and decontamination equipment.

Chemical Biological Defense Materiel Reliability Program
The CBDMRP ensures that suitable storage facilities and equipment are available, maintained, and meet all applicable Occupational Safety and Health Administration, safety and reliability standards. The CBDMSP also provides guidance to facilities storing CBDM regarding testing and taking corrective actions, as required, to maintain CBDM stocks in satisfactory conditions.

Section III

Special Abbreviations and Terms
This section contains no entries.