

Army Regulation 702-16

Product Assurance

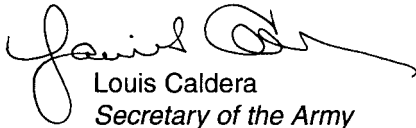
**Chemical
Materiel
Stockpile
Reliability
Program**

**Headquarters
Department of the Army
Washington, DC
26 November 1999**

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Product Assurance

Chemical Materiel Stockpile Reliability Program



Louis Caldera
Secretary of the Army

History. This printing publishes a revision of this publication. Because the publication has been extensively revised, the changed portions have not been highlighted.

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

Applicability. This regulation applies to the Active Army, the Army National Guard, and the U.S. Army Reserve. It applies to all DA activities that have a receipt, storage, issue, maintenance, surveillance, or test mission for chemical materiel (other than ammunition and bulk chemical agents). This regulation does not apply to medical items of materiel intended for defense or treatment against the effects of chemical or biological warfare weapons or agents.

Proponent and exception authority. The proponent of this regulation is the Deputy Chief of Staff for Logistics (DCSLOG).

The proponent has the authority to approve exceptions to policy in this regulation that are consistent with controlling law and regulations. The DCSLOG may delegate the approval authority, in writing, to a division chief within the proponent agency in the grade of colonel or the civilian equivalent.

Army management control process. This regulation contains management control provisions in accordance with AR 11-2 but does not identify key management controls that must be evaluated.

Supplementation. Supplementation of this regulation and establishment of command and local forms is prohibited without prior approval from Headquarters, Department of the Army (DALO-SMR), 500 Army Pentagon, Washington, DC 20310-0500.

Suggested improvements. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publication and Blank Forms) directly to Headquarters, Department of the Army (DALO-SMR), 500 Army Pentagon, Washington, DC 20310-0500.

Distribution. This publication is available in electronic media only and is intended for command levels C, D, and E for Active Army, Army National Guard, and U.S. Army Reserve.

* This Army regulation supersedes AR 702-16, 4 April 1988.
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Summary of Change

This revision—

- Rescinds the Stockpile Laboratory Test Program. All references to it have been deleted.

Chapter 1 Introduction

1-1. Purpose

- a. This regulation establishes Army policy, responsibilities, and guidance for the Chemical Materiel Stockpile Reliability Program (CMSRP). This program applies to all chemical materiel except ammunition, bulk chemical agents, and medical materiel intended for defense or treatment against the effects of chemical and biological warfare or agents.
- b. This regulation applies to all chemical/biological defense materiel, including chemical agent detectors, individual chemical protective equipment, collective protective equipment, and decontamination equipment. Specifically, any equipment used by soldiers or depot workers in the performance of their duties in a chemically/biologically contaminated area falls under the provision of the CMSRP. For example, all over-garments, gloves, over-boots, masks, and filters fall under the provision of the CMSRP.

1-2. References

Required and related publications and prescribed and reference forms are listed in Appendix A.

1-3. Explanation of abbreviations and terms

Abbreviations and special terms used in this regulation are explained in the glossary.

1-4. Responsibilities

Responsibilities are listed in chapter 2.

Chapter 2 Responsibilities

2-1. The Deputy Chief of Staff for Logistics

The Deputy Chief of Staff for Logistics (DCSLOG) will—

- a. Serve as the principal staff element for developing and disseminating policy for the CMSRP.
- b. Implement chemical safety and health hazard criteria as established by the Army Safety Office and the Surgeon General, respectively.
- c. Review, program, and approve funds for the conduct of the CMSRP and include these requirements in the Army Materiel Plan.

2-2. Principal officials of Headquarters, Department of the Army and Department of the Army Safety Office

These organizations will provide management and staff supervision within their respective functional areas in support of the CMSRP.

2-3. The Commanding General, US Army Materiel Command

The Commanding General, US Army Materiel Command will—

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

- b. Establish procedures implementing the CMSRP, including training courses, testing procedures, reports dissemination, and corrective actions to deficiencies in the stockpile.
- c. Establish procedures to determine if there is a need to extend the stockpile life of an item.
- d. Establish procedures to determine if chemical materiel is meeting established serviceability requirements.
- e. Establish procedures with other DOD activities that have chemical materiel requiring surveillance review and testing.

Chapter 3

Objectives, Elements, and Funding of the Chemical Materiel Stockpile Reliability Program

3-1. Objectives of the CMSRP

The CMSRP will—

- a. Ensure that chemical materiel entering into or already in the stockpile meets established safety and reliability requirements.
- b. Identify chemical materiel stockpile conditions and reliability trends and provide an estimate of the current stockpile condition.
- c. Identify chemical materiel items for timely maintenance, retrograde, or disposal.
- d. Assign priority-of-issue to and/or restrict use of chemical materiel items with marginal reliability or performance.
- e. Establish or confirm shelf life and prescribed stockpile life when warranted.
- f. Investigate and establish the cause of chemical materiel deficiencies occurring in type-classified materiel.
- g. Provide a basis for the engineering and logistic corrective actions necessary to restore the stockpile to a satisfactory condition, where unsatisfactory conditions exist.
- h. Provide a basis for a formal evaluation of equipment systems' life expectancies that might be extended.

3-2. Elements of the CMSRP

The CMSRP is performed on chemical materiel items having a definite stockpile (or shelf) life. Typical items requiring a program to determine their reliability include overgarments, gloves, chemical protective boots, filter elements, and so forth. The CMSRP does not include chemical-agent-filled munitions and medical materiel (Class VIII) intended for defense or treatment against the effects of chemical and biological warfare or agents. The CMSRP consists of two major elements. Depending upon the type and nature of the chemical materiel to be evaluated, any part, or all, of the following elements of the CMSRP may be used:

- a. The Chemical Materiel Surveillance Program (CMSP).

- (1) The CMSP defines the functional and nonfunctional characteristics of the chemical materiel stockpile. The program includes, but is not limited to, acquisition and maintenance of baseline performance data and visual inspections and tests (initial receipt, pre-issue, and so forth). It is also conducted as part of the supply readiness program or other quality control activities. Procedures for implementing this program are in SBs 740-94-1 through -13 and supporting supply bulletins.
 - (2) All CMSP inspections will be performed by specially trained, quality assurance specialists assigned to storage, issue, or test activities. The visual inspection and test requirements apply to all DA activities that have a receipt, storage, issue, maintenance, surveillance, or test mission for chemical materiel. Cognizant inspection personnel will evaluate those stocks reported to have been subjected to unsatisfactory or abnormal conditions during this phase of the CMSRP for possible inclusion in the stockpile function test or stockpile laboratory test programs described in para b(2) below.
 - (3) Also included in the CMSP are functions for—
 - (a) Managing the Chemical Materiel Suspension and Restriction Program.
 - (b) Checking for deterioration or damage.
 - (c) Ensuring the use of suitable facilities and equipment during storage.
 - (d) Reviewing and evaluating chemical materiel conditions during supply and maintenance operations and troop use in combat and training.
- b. The Stockpile Function Test Program (SFTP).
- (1) The purpose of the CMSRP SFTP is to determine the functional reliability, confirm shelf or service life, and detect trends in stockpile performance. The CMSRP manager administers the SFTP.
 - (2) The SFTP consists of the following subprograms:
 - (a) Function tests at chemical materiel facilities, including proving grounds. This subprogram pertains to critical deteriorative components of masks, canisters, filters, protective clothing, detectors, sensors, alarms, and shelters, and to materiel requiring special facilities and equipment for testing and obtaining variable type data or for making special evaluations. The stockpile is classified into representative segments (for example, by production lots, period of production, manufacturer, storage areas, and climatic conditions). Samples from these segments are selected, tested, and evaluated for reliability, performance, and serviceability of the stockpile.
 - (b) Function tests at chemical materiel storage installations. Tests in this subprogram pertain to major end and secondary items such as masks, protective clothing, and detector and alarm systems that do not require the use of chemical agents or the extensive use of instruments or range facilities. For these items, tests are conducted on the lots according to individual supply bulletins as directed by the CMSRP manager. The tests are performed under the direction of specially trained chemical inspection personnel.

- (c) Function tests at training facilities. Annual and semiannual service training operations with chemical materiel conducted by military units are used to supplement materiel performance and reliability data obtained during other phases of the program. In some cases these training operations may be monitored by using special test equipment to collect stockpile reliability data.
- (d) Functional tests requiring laboratory analysis. These tests are used to develop database information for extending the service life of an item, removing an item from the inventory, or identifying critical design or material failures. Laboratory tests are coordinated with the appropriate program manager, materiel user, HQ Army Materiel Command, and DA DCSLOG.

3-3. Funding for the CMSRP

- a. Operation and Maintenance, Army (OMA) funds will be used for inspections performed as part of normal storage functions carried out during execution of the chemical materiel wholesale supply mission.
 - (1) The wholesale mission includes inspections and tests to validate the supply readiness of chemical materiel end items and components; and preservation, packaging, and packing performed during receipt, storage, issue, and shipment.
 - (2) Included are cyclic inspections (inspections performed at regular intervals) specified in supply bulletins or special instructions to verify the serviceability of chemical materiel items and components in the wholesale inventory. Cyclic component(s) and end item tests performed at chemical materiel storage installations are included as well.
 - (3) User programs for all non-cyclic inspections of chemical materiel items or components that are part of the wholesale inventory are also included.
- b. The responsible item developer will use research, development, test, and evaluation funds to finance the CMSRP inspections.
- c. The responsible end item manager will use procurement appropriation or OMA appropriation funds to finance non-cyclic inspections directed by materiel commodity commands or other higher authority, including special inspections for the stockpile laboratory testing programs and non-cyclic function tests.
- d. Verification inspections (and other inspections and tests) performed as part of depot-level maintenance activities will be financed with OMA funds.
- e. Inspection of industrial stocks is chargeable to the funds financing the procurement or production of the parent chemical materiel end items.
- f. Chemical materiel stockpile reliability programs for systems no longer in the U.S. inventory will be funded as in a through e above. Foreign military sales (FMS) funds may also be used for these programs, and every effort should be made to obtain FMS funds when appropriate.

Appendix A References

Section 1

Required Publications

This section contains no entries.

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.

SBs 740-94-1 through -13

Storage Serviceability Standards

AR 385-10

The Army Safety Program

AR 740-1

Storage and Supply Activity Operations

TM 38-410

Storage and Handling of Hazardous Materials

DOD 4140.27-M

Shelf Life Management Manual

Section III

Prescribed Forms

This section contains no entries.

Section IV

Referenced Forms

This section contains no entries.

Glossary

Section I

Abbreviations

CMSP

Chemical Materiel Surveillance Program

CMSRP

Chemical Materiel Stockpile Reliability Program

DCSLOG

Deputy Chief of Staff for Logistics

FMS

Foreign military sales

OMA

Operation and Maintenance, Army

SFTP

Stockpile Function Test Program

Section II

Terms

This section contains no entries.

Section III

Special Abbreviations and Terms

This section contains no entries.

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