

Record Set
S/IMC-R (PCO)

*IOC Regulation 740-1

Department of the Army
Headquarters, U.S. Army
Industrial Operations Command
Rock Island, Illinois 61299-60000

18 JAN 1994

Production: Storage and Supply Activities

MANAGEMENT OF INDUSTRIAL STOCKS

Applicability. This regulation applies to the Headquarters, U.S. Army Armament, Munitions and Chemical Command (HQ, AMCCOM) Production Directorate (AMSMC-PD) and all HQ, AMCCOM subordinate installations and activities having industrial stocks under the management of the Production Directorate.

Decentralized Printing. All AMCCOM/DESCOM installations are authorized to locally reproduce this regulation.

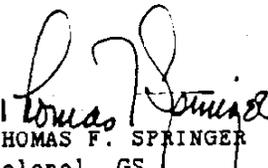
Supplementation. Supplementation of this regulation and establishment of local forms are prohibited without prior approval from Commander, HQ, AMCCOM, ATTN: AMSMC-PDJ, Rock Island, IL 61299-6000.

Suggested improvements. The proponent of this publication is the HQ, AMCCOM, Production Directorate. Users are invited to submit comments to the Commander, HQ, AMCCOM, ATTN: AMSMC-PD, Rock Island, IL 61299-6000.

Distribution. Distribution of this publication is made in accordance with requirements submitted by AMCCOM/DESCOM organizations (stocked/issued by Rock Island Arsenal, ATTN: SAI-PSP).

FOR THE COMMANDER:

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Contents

Paragraph

Purpose	1
References	2
Explanation of Terms/Acronyms	3
Responsibilities	4
Policies	5
Appendix A. Disposal of Industrial Stocks	
Appendix B. Instructions for Completing Meteorological Data Form (Open Detonation)	
Appendix C. Instructions for Completing Meteorological Data Form (Open Burning)	
Appendix D. Electronic Weather Station, Portable, Battery Operated, Data Recording	
Appendix E. Work-In-Process/Consumption Reporting	
Appendix F. References	
Appendix G. Explanation of Terms/Acronyms	

*This regulation supersedes AMCCOMR 740-1, 31 January 1988.

18 JAN 1994

1. Purpose.

This regulation prescribes policies, responsibilities, and procedures for management of all industrial stocks for use in the production of end items and components.

2. References. See Appendix F.

3. Explanation of Terms. See Appendix G.

4. Responsibilities.

a. The Director of the Production Directorate, HQ, AMCCOM, will manage the industrial stocks. The Production Directorate will:

(1) Perform overall storage management functions for industrial stock inventories at the Army ammunition plants.

(2) Perform inventory management functions for the industrial stocks inventory.

(3) Perform analysis of acquisition planned industrial components to determine appropriateness of planned procurements and to assure correct application of stocks on hand.

(4) Receive, coordinate, and issue final disposal authority on all Conventional Ammunition Working Capital Fund (CAWCF) stocks and plant procured stocks that are obsolete, unserviceable or excess to production requirements.

(5) Assure CAWCF material declared excess to production requirements is placed in purpose code "M" by the production manager. The production manager will request concurrence from the owner for other than CAWCF material prior to placing the material in purpose code "M".

(6) Assure that a review of excess CAWCF material (purpose code M) is accomplished semi-annually and screened for alternate use/users. Disposal direction will be given for material not identified for retention.

(7) Determine funding requirements and provide funding for Care, Maintenance and Surveillance (CMS), Packing, Crating and Handling (PC&H), and Disposal of industrial stocks not directly related to an open production order. Funding for miscellaneous requirements such as routine rewarehousing will be provided on a case-by-case basis.

(8) Assure coordination with the HQ, AMCCOM, Transportation and Traffic Management Directorate (AMSMC-TM) and Defense Ammunition Directorate (AMSMC-DS) when processing a DD Form 1348 (Single Line Item Release/Receipt Document) high priorities (01 thru 08), short required delivery dates (1 to 10 days), shipments when the item is stored at more than one location, repetitive shipments, or actions involving 20,000 pounds or more.

1 8 JAN 1994

IOC Regulation 740-1

(9) Assure acquisition of end items/components and provide shipping instructions for government furnished material (GFM).

(10) Provide overall management for the CAWCF Consumption and Industrial Balance Report to include receipt and processing of consumption transactions from active production facilities for componentry utilized on conventional ammunition production.

(11) Review small lot reports and take appropriate actions to assure small lots are used or disposed of.

b. The Transportation and Traffic Management Directorate will provide overall support to subordinate installations and HQ, AMCCOM elements to ensure the safe transportation of components, ammunition and explosives IAW CFR 49. When feasible, AMSMC-TM will consolidate shipments and challenge the use of premium transportation.

c. Subordinate commanders will:

(1) Assure accountability of industrial stocks reportable within the Commodity Command Standard System (CCSS), plant procured assets, and work-in-process (WIP) assets.

(2) Perform accountability functions and report the receipt, storage, adjustment, and shipment of all industrial stocks in accordance with AMCCOMR 700-23 and this regulation as applicable. Lot identification, including deviations, waived material, drawing numbers, revisions, Engineering Change Proposals, Calibrated (Quality Assurance (QA) stock), etc., will be maintained at the installation level.

(3) Consume stocks as required to support production operations and report them in accordance with this regulation.

(4) Assign proper condition codes as prescribed by AR 725-50, based on applicable surveillance activities. Line rejects will be assigned the proper condition code IAW AR 725-50 by the installation quality elements. All stocks returned to storage will be picked up on accountable records in the proper condition codes.

(5) Prepare and submit the Industrial Stocks Status Report IAW DI-L-1415B (Contract Data Requirements List (CDRL) 460).

(6) Identify those CAWCF assets which are unserviceable, obsolete/nonstandard or excess to known production requirements and prepare/submit requests for disposition instructions. The request shall provide nomenclature, national stock number (NSN)/part number, lot number, quantity, condition code, description/defects encountered, cause of defects, and recommended disposition.

(7) Assure disposition action is accomplished on unserviceable, excess and uneconomically repairable industrial stocks (CAWCF and plant procured/fabricated production items). Local disposal is authorized for items not reserved for Quality

18 JAN 1994

Assurance, with a unit value of \$500 or less or a total lot value of \$5,000 or less. This authority applies, but is not limited to, the following:

- (a) Line rejects.
- (b) Rejects resulting from inspections.
- (c) Tag end lots of ammunition too small for normal assembly, or hybrid lots of ammunition.
- (d) Excess locally procured/fabricated production items.
- (8) Report all Service unique material to the respective Service for disposition instructions when excess, unserviceable, obsolete or nonstandard.
- (9) Submit cost estimates as requested by the HQ, AMCCOM, Production Directorate, Programs, Resources, and Industrial Stocks Support Branch (AMSMC-PDJ-I), on fiscal year basis and perform the functions of CMS and PC&H associated with the management and maintenance of industrial stocks. Cost estimates are also required for disposal of industrial stocks not directly related to a specific open production order.
- (10) Review and certify all requests submitted to AMSMC-PDJ-I for the purpose of funding other than routine rewarehousing of industrial stocks maintained in storage.
- (11) Store ammunition, components and explosives IAW the appropriate storage drawing and safety regulations. Care will be taken to assure assets are stored in stable outer packs and stacked properly. Magazine data cards will be legible and accurate. Problems with industrial stocks in storage will be reported to AMSMC-PDJ-I.
- (12) Report small lots semi-annually to AMSMC-PDJ-I, IAW OT-87-12131 (CDRL 462) and provide consumption plans or recommended disposition.
- (13) Submit request for disposition instructions to AMSMC-PDJ-I when movement of CAWCF stocks is required to relieve storage problems within the plant.
- (14) Take immediate disposal action on material determined to present an immediate explosives hazard. Following this action, subordinate commanders will promptly contact AMSMC-PDJ-I.
- (15) Accomplish all disposal actions received from HQ, AMCCOM, within 180 days from receipt of the approval for disposal. If disposal cannot be accomplished within the 180-day guidelines, notify AMSMC-PDJ-I by letter within 30 days. The notification must include the reason for the delay along with milestones for the proposed start and completion dates. Notification to AMSMC-PDJ-I is also required if local capability for disposal does not exist.
- (16) Routinely dispose of waste, scrap, and explosives generated from production operations. Waste materials will not be stockpiled.

1 8 JAN 1994

IOC Regulation 740-1

(17) Dispose of industrial stocks IAW the basic guidelines outlined in Appendix A.

(18) Return serviceable components remaining after the production process to the HQ, AMCCOM CAWCF account.

(19) Account for CAWCF assets as outlined in AMCCOMR 700-23.

(20) Coordinate with AMSMC-TM on any transportation issues relative to the safe transportation of explosive/hazardous material.

5. Policies.

a. All industrial stocks located at installations and activities under the management of HQ, AMCCOM, or under contract to HQ, AMCCOM, will be managed under the purview of this regulation.

b. All installations and activities having plant procured material under the purview of this regulation will maintain records to assure local accountability of the materials. For GOCO facilities, these records will be maintained by the operating contractor. Under the provisions of this regulation or applicable contract clause(s), disposition for plant procured material which is obsolete, nonstandard, or excess to known production requirements will be requested from the AMSMC-PDJ-I.

c. The HQ, AMCCOM, Defense Ammunition Directorate, Defense Accountability and Logistics Management Division will maintain the accountable record for all CAWCF assets except those in plant WIP accounts, via the CCSS. All installations will process transactions required to update CCSS in a timely manner.

d. No industrial stock inventories (plant procured or CAWCF) will be retained unless the item(s) can be maintained in usable condition or can be economically repaired. This decision should consider such factors as shelf life of the item, possible obsolescence of applicable end items, and comparison of costs for new procurement with costs of care and maintenance.

e. Procurement of items against current programs will take into consideration the available components in stock. No procurement will be initiated for the purpose of increasing component stocks, except where authority has been granted by the Office of the Secretary of Defense or other Department of Defense (DOD) agencies.

f. No contract overrun will be accepted at the expense of the government, except that permitted under contract provisions. All overruns will be accounted for in the CAWCF IAW AMCCOMR 700-23.

g. Use of industrial stocks maintained by HQ, AMCCOM, in other than purpose code F, is prohibited. Request for use of stocks specially reserved in other purpose codes must be approved by the production manager. (Refer to AR 725-50 for explanation of purpose codes.)

h. Plant procured/fabricated industrial stocks exceeding a unit value of \$500 or total lot value exceeding \$5,000 will be reported on the Industrial Stocks Status

18 JAN 1994

Report when determined to be unserviceable, obsolete/nonstandard, or excess to known production requirements. This material will be screened for alternate use/users. This report will not include CAWCF assets and WIP material.

i. Serviceable, used packing material and components will be processed as automatic returns IAW HQ, AMCCOM's annual letter.

j. Disposition instructions for CAWCF assets which are unserviceable, obsolete/nonstandard or excess to known production requirements will be reported to AMSMC-PDJ-I. The request shall provide nomenclature, NSN/part number, quantity, condition code, description/defects encountered, cause of defects, and recommended disposition. A determination of disposition and response will be sent to the originator within 60 working days. Material for which retention is directed ('retain as is') will be reviewed semiannually for changes in requirements. The originator will be advised of the review and its results.

k. Costs associated with CMS, Disposal and PC&H of industrial stocks as defined in this regulation will not be charged to production overhead. Costs for these functions should be maintained and will be funded separately. Funding for these functions will be provided by AMSMC-PDJ-I. The costs associated with disposal of industrial stocks identifiable to a specific production order will be charged to the production order.

l. Disposal actions should be accomplished within 180 days from receipt of HQ, AMCCOM, approval for disposal. If disposal cannot be accomplished within 180 days, AMSMC-PDJ-I must be notified within 30 days from receipt of disposal instructions. Notification is also required within 30 days if local capability or disposal does not exist. Disposal action will be reported monthly on the Disposal Summary Report. Information required on actual disposal will include NSN, quantity, and document IAW OT-87-12240 (CDRL 466).

m. Material approved for disposal by HQ, AMCCOM and offered for sale through Defense Reutilization and Marketing Office (DRMO) (Property Disposal) will not be reported as disposed until the property is actually in the possession of the buyer. Should this procedure exceed the 180-day suspense, the plant will request an extension from AMSMC-PDJ-I, providing justification and the anticipated sale date.

n. When the industrial stock disposal process has been completed, a D9Z card to remove the item from the accountable record must be submitted IAW AR 725-50.

o. Service unique material should be screened with the respective Service. If determination of ownership is required contact AMSMC-PDJ-I for assistance.

p. The operating contractor/subordinate commander will be responsible for the disposal of industrial stocks waste and scrap ammunition and explosives including complete rounds generated from production operations. This includes developing written procedures for disposal, priorities, personnel certification and training, and complying with local safety and environmental regulations. (See Appendix A.)

q. Production waste, scrap, and explosives generated from production operations will be disposed of routinely. Waste materials will not be stockpiled. Costs associated with disposal will be charged against the open production order.

18 JAN 1994

IOC Regulation 740-1

r. The Army First-In, First-Out policy, based on date of receipt, shall be observed in regard to the issue of industrial stocks. Small lots shall be used to the greatest extent possible. Exceptions to this policy are when production operations will be adversely affected; when directed by HQ, AMCCOM; or when otherwise considered to be in the best interest of the government.

s. Industrial components required to support conventional ammunition production will be requisitioned from the CAWCF account with the submission of a requisition card IAW AMCCOMR 700-23. Requisitions will normally be prepared once a month to maintain a supply of components in the WIP account for production of scheduled programs; however, the total quantity in WIP may not exceed a 60-day supply. Exceptions to this policy must be negotiated by the installation with the production manager on a case-by-case basis. This supersedes guidance issued in AMCCOMR 700-23.

t. The plant commander or his designated representative will monitor accountability of WIP material on a quarterly basis by means of a separate Count 5. This verification process will include review of the location and count of the material in WIP. Each quarter, five stock numbers will be selected from WIP for designated personnel to conduct the Count 5. Location survey procedures will be used to survey one location per lot for each stock number. The person conducting the inventory will complete all actions from the first count through completing research and initiating necessary adjustments. Results of the Count 5 will be documented and filed by fiscal year.

u. Government personnel will monitor the transfer of components to WIP on a quarterly basis. The review should make sure the quantities are reasonable when compared to approved production schedules and the current WIP balance. If it is determined that the requests are not reasonable, the contracting officer's representative must work with the contractor for justification.

v. Government personnel will review WIP inventory quarterly to identify components excess to production requirements. A D6H document should be used to return serviceable material to the CAWCF account.

w. Consumption of industrial components, previously requisitioned from CAWCF, utilized in conventional ammunition production, will be reported on a monthly basis IAW OT-86-12023 (CDRL 018) (See appendix E).

x. Government personnel will review component consumption statistics quarterly to determine if the quantities are reasonable or vary significantly when compared to the bill of material, material requirement list, test rates and established scrap rate. If more than a ten percent variance exists, the contracting officer's representative must work with the contractor to determine the reason for the variance and report findings to the plant commander. The commander will determine if notification to HQ, AMCCOM is required.

1 8 JAN 1994

IOC Regulation 740-1

APPENDIX A

DISPOSAL OF INDUSTRIAL STOCKS (CAWCF AND PLANT PROCURED)

1. SCOPE: This appendix prescribes responsibilities and procedures for the disposal and demilitarization of munitions, bulk propellants, bulk explosives, and ammunition components. Saleable inert components or scrap explosives will be managed IAW DOD 4160.21-M.
2. GENERATION OF DISPOSAL ACTIONS: Only the contracting officer or the administrative contracting officer (ACO) may direct the contractor to perform disposal actions under the contract. The ACO/subordinate commander can be authorized to direct disposal by:
 - a. Owner of the material; Department of Defense (DOD), Army, Navy, Air Force, Marine Corps, Single Manager for Conventional Ammunition Inventory Control Points and other DOD/government agencies when material is identified as excess, obsolete, or uneconomically repairable material.
 - b. Quality Assurance Specialists (Ammunition Surveillance) within the DA Pamphlet 738-750 limits of replacement cost, serviceability and ownership.
3. DISPOSAL PRIORITIES: The operating contractor/subordinate commander will assign priorities for disposal IAW the following criteria:
 - a. Priority 1 - Explosive Safety Hazard: Explosives or ammunition items that are discovered to be an imminent explosive safety hazard.
 - b. Priority 2 - Security Risk: Ammunition posing a security risk. An example would be to relieve or eliminate the need for security waivers.
 - c. Priority 3 - Storage Space Problems: Ammunition items approved for disposal to relieve a storage impact.
 - d. Priority 4 - Routine Items: Ammunition items which do not fall in priorities 1, 2, or 3.
 - e. Priority 5 - Ammunition Items Requiring NEW Technology: Ammunition items which have no approved procedures for disposal.
4. DISPOSAL OPERATIONS (GENERAL):
 - a. The operating contractor/subordinate commander shall perform the overall management responsibilities and procedures for the disposal and demilitarization of industrial stock munitions, bulk propellants, bulk explosives and ammunition components.
 - b. Personnel engaged in demilitarization operations shall be certified IAW AMC-R 350-4.
 - c. Returned or locally generated ammunition scrap or packing material which can be sold through Defense Reutilization Marketing Office or local plant sale will be

properly certified free of explosives and contamination to a level of 3X. Procedures for inspection and certification of returned packing material are contained in SB 742-1, DOD 4160.21-M-1, and AMC-R 385-100, Chapter 25 and Chapter 27.

5. INDUSTRIAL HYGIENE: Demilitarization and disposal of munitions, bulk explosives, bulk propellants, and ammunition componentry can expose workers to chemical and physical stresses which may cause sickness and impair health. The operating contractor/subordinate commander shall take specific precautions to recognize, evaluate and control these conditions.

6. SECURITY: The operating contractor/subordinate commander shall be responsible for providing for the security of explosives and componentry as prescribed in DOD 5100.76-M, September 1992.

7. SAFETY:

a. Disposal operations shall be conducted IAW AMC-R 385-100, with Change 1, Chapters 25 and 27. Reference to DARCOMR 385-1 in Chapter 25, paragraph 25-1 is to be ignored.

b. Disposal procedures (including standing operating procedures (SOP)) shall be approved by Safety IAW the 'Preparation of Standing Operating Procedures (SOPs) for Ammunition Operations' Statement of Work prior to use. All operations, facilities and equipment used for conventional ammunition disposal will be approved initially by the operating contractor/government safety organization and at such frequency thereafter to assure safety of operations.

c. The results of all safety inspections of demilitarization operations shall be documented.

8. SURVEILLANCE:

a. The operating contractor/subordinate commander shall be responsible for the assigned surveillance functions IAW AMCCOMR 702-9, Appendix A, paragraph 3f. Results of all surveillance inspections of demilitarization shall be documented.

b. Surveillance personnel directly involved in ammunition and explosive operations shall be certified IAW AMC-R 350-4.

c. Surveillance personnel shall monitor demil and burning and open detonation (OD) demolition operations. Presence of surveillance personnel at open burning (OB) and OD is required at all times when charges are being set, during burn or detonation and to verify explosives have been completely consumed. This should not be interpreted to mean 8 hours per day, continuous coverage. Surveillance personnel must also be present during disassembly of explosive components when performed as a demil operation. Surveillance personnel review of other demil activities may be on a spot-check basis at a locally established frequency. Qualified safety personnel may also fulfill these verification requirements.

18 JAN 1994

IOC Regulation 740-1

9. ENVIRONMENTAL REQUIREMENTS:

a. All federal, state, and local environmental regulations shall be complied with in all propellant, explosives, and pyrotechnics (PEP) and PEP-related demilitarization operations. Demilitarization operations are subject but not limited to the Clean Water Act, Clean Air Act, Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), the Noise Control Act and the National Environmental Policy Act.

b. The operating contractor/subordinate commander is responsible for ensuring that all demilitarization operations comply with all applicable environmental regulations and permit requirements. This includes but is not limited to all applicable operation and waste management requirements, facility standards, and permit requirements found at 40 CFR 260 et seq.

c. The operating contractor/subordinate commander shall incorporate applicable regulatory requirements and conditions and requirements of environmental permits or permit applications into local demilitarization SOPs. Coverage by reference to other existing SOPs is permitted.

d. The operating contractor/subordinate commander must designate a person to direct a training program which includes instruction that teaches demilitarization personnel hazardous waste management procedures and contingency plan implementation in sufficient detail to assure performance of duties in compliance with environmental permit conditions and requirements, hazardous waste management rules, and without release of hazardous substances and waste to the environment.

e. The designated person shall be trained in environmental management and demilitarization procedures or have equivalent experience in these fields. Training may consist of on-site on-the-job training or formal training on or off-site. If the designated person does not possess the necessary training or experience, they should attend within one year of appointment the Environmental Coordinators Course (taught at the U.S. Army Logistics Management Center, Fort Lee, VA) and the Environmental Requirements for Demilitarization Course (taught at U.S. Army Defense Ammunition Center and School, Savanna Army Depot Activity, Savanna, IL) unless course availability prohibits attendance. Equivalent experience means having served a minimum of 2 years as an environmental manager and have a minimum of 6 months experience in demilitarization procedures.

f. All hazardous waste OB operations must be conducted in a containment device such as a metal pan. The recommended configuration for the containment device is one which meets the definition of a container, (i.e., portable as defined in 40 CFR 260.10) and is managed between burns so as to meet the requirements for temporary storage spelled out in 40 CFR 262.34(a). The containment system must be elevated to allow positive inspection for leakage and to eliminate runoff.

g. Residuals of hazardous waste PEP (either characteristic or listed as described in 40 CFR 261, Subpart C and D, respectively) are still considered to be hazardous waste as defined by their original hazardous waste characteristics and any additional ones which may have been generated (e.g., Toxicity Characteristic Leaching Procedure (TCLP)) as a result of the OB operation. Therefore, representative samples of the ash

18 JAN 1994

residuals must be collected and tested, on a frequency stipulated in the Hazardous Waste Analysis Plan, initially for reactivity as defined by the card gap test, the detonation and deflagration test (DDT), and any other reactivity tests which may be required by State environmental regulatory agencies. (NOTE: The Bureau of mines can perform the card gap test and DDT on a reimbursable basis.) If the samples are reactive, then the residuals must be re-burned. Representative samples must again be collected and tested. Once proven to be non-reactive and no other hazardous waste characteristic (primarily TCLP and ignitability) is manifested, the residuals may be disposed of IAW applicable federal, state, or local regulations applicable to non-hazardous industrial waste. However if representative samples of the residuals test positive for any other hazardous waste characteristic except reactivity, then the residuals must be treated, stored and disposed of IAW all applicable hazardous waste management regulations. All residuals, whether hazardous or not, will be removed from the containment device within 90 days of original generations.

h. New OB sites must not be located where CERCLA or past disposal sites have been.

i. Open detonation operations may require state and/or local air emission permits in addition to a hazardous waste permit. Operations must be conducted in strict accordance with all restrictions and requirements of these permits. After each day's operations, surface exposed scrap metal, casings, fragments, and related items shall be recovered from the OD grounds and disposed of IAW all applicable environmental regulations. After all planned detonations for the day are complete, a search of the surrounding area shall be made for unexploded ordnance. Items or material such as lumps of explosives or unfuzed ammunition shall be picked up or prepared for the next detonation IAW AMC-R 385-100, Chapter 27, paragraph 27-18b.

j. The operating contractor/subordinate commander shall report all enforcement actions issued by and received from Federal, state, or local regulatory agencies to the ACO/Contracting Officer's Representative (COR) staff immediately.

k. Deactivation Furnaces, Explosives Waste Incinerator, Slurry-Fed Incinerators, and Fluidized-Bed Incinerators.

(1) These units, when used for demilitarization/destruction of other than Hazard Class/Division 1.4 explosives are considered hazardous waste treatment units and must be permitted and operated as such. All ash residues from these units, to include those from the destruction of Hazard Class/Division 1.4 explosive munitions, must be considered hazardous waste and be handled IAW paragraph 9g.

(2) The SOPs for operating these units shall incorporate permit conditions/requirements such as contingency plan implementation, waste analysis, training, record keeping and reporting.

(3) New or reactivated units will require a full RCRA Part B Permit and an air emission permit prior to operation.

18 JAN 1994

IOC Regulation 740-1

10. METEOROLOGY:

a. When conducting OB/OD demilitarization operations, special attention shall be given to the meteorological conditions. Adverse meteorological conditions could scatter the ash and residue contaminating the surrounding areas or cause a noxious smoke plume or detonation by-products to pass off Government property.

b. The operating contractor/subordinate commander shall maintain meteorological data statistics forms shown in Appendix B or locally generated forms approved by the U.S. Army Environmental Hygiene Agency. At Government-owned, contractor-operated facilities, the ACO/COR will obtain this approval. The instructions for completing meteorological data statistics forms are also located at Appendices B and C. The information required on the form shall be obtained from the electronic weather station (Appendix D) or an equivalent. Required information that is not obtainable from the weather station, i.e., high altitude inversion, forecast, cloud ceiling, etc., shall be obtained from the nearest U.S. Weather Service.

c. In addition to recording all data required in the weather data statistics form, the following general conditions shall be followed unless local, state or Federal regulations are more stringent.

(1) The OB/OD operations shall not be conducted during electrical storms or thunderstorms or during periods of precipitation of forecasted high probability (greater than 50 percent) or precipitation as predicted by the U.S. Weather Service for the duration of operations.

(2) The OB/OD operations shall be restricted to periods when surface wind speed is more than 3 miles per hour and less than 15 miles per hour and from a direction which shall not carry the smoke and other by-products over any city, town, residential, recreational, commercial, or industrial area, navigable water, public road, or landing strip within 1 mile of the OB/OD site.

(3) The OB/OD operations shall not be conducted during periods of reduced visibility (less than 1 mile) caused by but not limited to dense fog, blowing snow, sand, or dust storms.

(4) The OB/OD shall not be carried out on extremely cloudy days. Extremely cloudy days shall be defined as overcast days (more than 80 percent cloud cover) with a ceiling of less than 2,000 feet.

(5) The OB/OD operation shall not be initiated until at least 1 hour after sunrise and shall be concluded by at least one-half hour before sunset.

(6) The OB/OD operations shall not be conducted during any inversion condition (low or high altitude).

(7) The OB/OD ground supervisor shall ensure that the Weather Data Statistics forms are properly filled out for each day's operations.

18 JAN 1994

(8) No OB/OD operations shall be left unattended during the active portion of the operation (i.e., during the actual detonation or burn).

(9) The OB/OD operations shall not be conducted during periods of local air quality advisories/alerts.

(10) Installations will operate under all constraints identified by the Installation Compatible Zone.

(11) No OB of spent halogenated solvents and non-halogenated solvents identified by 40 CFR 261.31 and 261.32 shall be conducted unless authorized by ACO/COR with the concurrence of the HQ, AMCCOM, Environmental Quality Directorate, Environmental Engineering Division.

(12) No OB/OD of hexachloroethane, colored smokes, white phosphorus, red phosphorus and riot control munitions shall be conducted unless authorized by the installation commander for emergency actions when approved by appropriate regulatory authorities.

(13) Propellant, explosives and pyrotechnic contaminated wastes are not classified hazardous waste and may be OB at areas separated from the OB hazardous waste to prevent commingling of ash residues. Ash residues from PEP contaminated wastes may exhibit the PEP toxicity characteristic and must be tested to determine their classification and handling as hazardous or non-hazardous waste.

1 8 JAN 1994

IOC Regulation 740-1

APPENDIX B

INSTRUCTIONS FOR COMPLETING METEOROLOGICAL DATA
STATISTICAL FORM (OPEN DETONATION)
WEATHER DATA STATISTIC FORM (OPEN DETONATION)

1. The purpose of the Weather Data Statistics form is to document weather conditions prior to and at completion of each open detonation site operation. The information collected will enable operators to determine adequacy of environmental conditions for demolition range use.
2. Fill in the columns of the Weather Data Statistics form prior to and at the completion of each operation as follows:
 - a. INSTALLATION. Name of installation/activity and office of responsibility.
 - b. DEMOLITION RANGE LOCATION. Self-explanatory.
 - c. MO/YR. Reporting month and year. Enter the current calendar month and year.
 - d. DAY/TIME. Enter the day of the month and time of readings prior to and just after each disposal operation. The day should be entered once for each day. The time entry shall be made with each set of new readings. Military time shall be recorded, based on the 24-hour clock.
 - e. TEMP. Temperature. Record the temperature from the temperature measuring device.
 - f. REL HUM. Relative Humidity. Record the relative humidity (0 to 100 percent) from the humidity gauge.
 - g. WIND SPEED. Record the wind speed in miles per hour.
 - h. WIND DIRECTION. Record the wind direction in degrees or as follows: NE., E., SE., S., SW., W., NW., or N. as indicated by the wind direction gauge or meter.
 - i. SKY COND. Sky condition. Record the average cloud cover from the codes indicated below:

<u>Code</u>	<u>Condition</u>
0	Clear (less than 1/10 cloud cover)
1	Scattered Clouds (1/10 to 1/2 cloud cover)
2	Broken clouds (6/10 to 8/10 cloud cover)
3	Overcast (8/10 or more cloud cover)
4	Rain

- j. LOCAL PARAMETERS. Record any local, state, or federal meteorological parameters required.

18 JAN 1994

k. MATERIEL DESTROYED. If weather conditions permit materiel destruction, indicate the type of operation and the amount and type of materiel that is to be destroyed, and the Ammunition Transfer Record (DA Form 4508) number. Otherwise, enter 'NO OPERATIONS' and circle the weather condition which limits the operation.

1 8 JAN 1994

IOC Regulation 740-1

APPENDIX C
INSTRUCTIONS FOR COMPLETING METEOROLOGICAL DATA
STATISTICAL FORM (OPEN BURNING)
WEATHER DATA STATISTICS FORM (OPEN BURNING)

1. The purpose of the Weather Data Statistics form is to document weather conditions prior to and at completion of each open burning operation. The information collected will enable operators to determine adequacy of environmental conditions for burning ground use.

2. Fill in the columns of the Weather Data Statistics form prior to and at the completion of each operation as follows:

- a. INSTALLATION. Name of installation/activity and office of responsibility.
- b. BURNING GROUND LOCATION. Self-explanatory.
- c. MO/YR. Reporting month and year. Enter the current calendar month and year.
- d. DAY/TIME. Enter the day of the month and time of readings prior to and just after each disposal operation. The day should be entered once for each day. The time entry shall be made with each set of new readings. Military time shall be recorded, based on the 24-hour clock.
- e. 1/2M TEMP. One-half meter temperature. Record the temperature at the 1/2 meter elevation from the temperature measuring device.
- f. 4M TEMP. Four meter temperature. Record the temperature at the 4 meter elevation from the temperature measuring device.
- g. T. Temperature difference. Subtract the one-half meter temperature from the 4 meter temperature and record the difference in this column.
- h. COND. L, N, I. Ground level atmospheric conditions; lapse, neutral or inversion. If the value of T (Column 7) is within the range of 1 degree (+1) to minus 1 degree (-1), a neutral condition exists. Enter N for a neutral weather condition. If T (Column 7) is 1 degree or more below zero, enter L for a lapse weather condition. If the value of T is 1 degree or more above zero enter I for an inversion condition.
- i. REL HUM. Relative Humidity. Record the relative humidity (0 to 100 percent) from the humidity gauge.
- j. WIND SPEED. Record the wind speed in miles per hour.
- k. WIND DIRECTION. Record the wind direction in degrees or as follows: NE., E., SE., S., SW., W., NW., or N. as indicated by the wind direction gauge or meter.

1. SKY COND. Sky condition. Record the average cloud cover from the codes indicated below:

<u>Code</u>	<u>Condition</u>
0	Clear (less than 1/10 cloud cover)
1	Scattered Clouds (1/10 to 1/2 cloud cover)
2	Broken clouds (6/10 to 8/10 cloud cover)
3	Overcast (8/10 or more cloud cover)
4	Rain

m. LOCAL PARAMETERS. Record any local, state, or federal meteorological parameters required.

n. MATERIEL BURNED. If weather conditions permit materiel destruction, indicate the type of operation and the amount and type of materiel that is to be destroyed, and the Ammunition Transfer Record (DA Form 4508) number. Otherwise, enter "NO OPERATIONS" and circle the weather condition which limits the operation.

1 8 JAN 1994

IOC Regulation 740-1

APPENDIX D
ELECTRONIC WEATHER STATION, PORTABLE,
BATTERY OPERATED, DATA RECORDING

1. Meteorological equipment list for burning ground operations:

Quantity	Part No.	Description
1	100766	Electronic Weather Station (EWS), complete system for wind speed, wind direction and temperature. Includes sensors, signal conditioners, extender card, dashing circuit variable time constant, multiplexing recorder, environmental enclosure, 24-hour time mark, voltage outputs, sensor carrying case, one roll chart paper, 35-foot sensor cables and instruction manual.
1	R.H.	Relative Humidity Sensor, 0-100 percent R.H. +/- 5 percent with 35-foot cable.
1	T	Temperature probe with shield and 35-foot cable, -40 to +120 degrees Fahrenheit, +/- 0.1 degree Fahrenheit.
1	100782	Portable 16 channel cassette data acquisition system (CADS), mounted in separate environmental enclosure with cables from EWS and CADS. Depending on installation requirements, the EWS can be used portable with a tripod or installed permanently on a tower.
1	C-33	10 meter tower.
1	100253	Expandable tripod mast.

2. Recommended additional operating supplies:

12	400623	Cassette tape, digital, 300 ft.
12	C6694	Chart paper (31 days), English divisions.

18 JAN 1994

IOC Regulation 740-1

APPENDIX E

WORK-IN-PROCESS/CONSUMPTION REPORTING

1. General.

a. Work-in-process stocks consumed in the conventional ammunition manufacturing process include:

(1) All CAWCF issued assets that were assembled into an item identified to a NSN and separate funds were received for its assembly.

(2) All CAWCF issued assets that were disposed of as scrap from the manufacturing process.

b. Consumption of WIP stocks will be reported at least monthly or as directed by AMSMC-PDJ-I. The cut off date for monthly reports will be as of the last work day each month. Monthly reports will be forwarded by mail, AUTODIN, or PRIME to Commander, HQ, AMCCOM, ATTN: AMSMC-PDJ-I, to arrive not later than the 8th working day of the month following the report.

2. Input Document, DIC BT4.

General Purpose 80 column punch card may be used to submit the required data to HQ, AMCCOM. The input document will contain the data as indicated below:

Field Legend	CC	Entry and Instructions
Document Identifier Code	1-3	BT4
Card Code	4	P
Correction Code	5	Blank, unless correction for previous report, then X.
Procurement Request Order Number	6-19	Enter PRON as follows:
	6-7	Enter F1
	8	Enter one digit fiscal year - for example 3 for FY 93
	9-13	Enter contract line item number
	14-15	Enter amendment number

18 JAN 1994

16-17	Enter M1
18-19	Enter seller code
20-21	Enter sequential number of this report (code 01 through 99. Code FF for final report.
22	Enter P
23-31	Enter Quantity - right justified, zero filled.
32-33	Enter Unit of Issue
34-50	Enter NSN
51-68	Blank
69-71	Year and month, for example 304 for April 1993
72-77	Blank
78-80	Enter DJO

18 JAN 1994

IOC Regulation 740-1

APPENDIX F

REFERENCES

1. 40 CFR, Title 40 - Code of Federal Regulation - Protection of Environment, Parts 240 to 265.
2. 49 CFR, Title 49 - Code of Federal Regulations - Transportation, Parts 100 to 177.
3. AMCCOMR 700-23, 20 Jun 86, Management of Materiel in the Field Service Account and the Ammunition Working Capital Fund Account.
4. AMCCOMR 702-9, 28 Mar 90 w/ chg 1 dtd 26 Sep 90, Ammunition Surveillance Procedures for AMCCOM Installations.
5. AMC-R 350-4, 1 May 92, Training and Certification Program for Personnel Working on Ammunition Operations.
6. AMC-R 385-100, 1 Aug 85 w/ chg 1 dtd 16 Mar 1990, AMC Safety Manual.
7. AR 725-50, 26 Jan 93, Requisitioning, Receipt, and Issue System.
8. DA Pamphlet 738-750, 27 Sep 91, The Army Maintenance Management System (TAMMS) Issue 13.
9. DOD 4160.21-M (P & L), Mar 90, Defense Utilization and Marketing Manual.
10. DOD 4160.21-M-1, Oct 91, Defense Demilitarization Manual.
11. DOD 5100.76-M, Sep 93, Physical Security of Sensitive Conventional Arms, Ammunition and Explosives.
12. Federal Acquisition Regulation.
13. Memorandum, HQ, AMCCOM, AMSMC-DSD-P, 7 Oct 93, subject: Disposition of Used Packing Materiel and Certain Specified Ammunition Components.
14. SB 742-1, 12 Nov 90, Inspection of Supplies & Equipment, Ammunition Surveillance Procedures.
15. CDRL 460, Industrial Stocks Status Report (DI-L-1415B).
16. CDRL 462, Small Lot Management Report (OT-87-12131).
17. CDRL 466, Disposal Summary Report (OT-87-12240).
18. CDRL 018, Item Consumption Report (OT-86-12023).

18 JAN 1994

IOC Regulation 740-1

APPENDIX G

EXPLANATION OF TERMS/ACRONYMS

1. Definitions.

a. Conventional Ammunition Working Capital Fund. This fund was established for the purpose of accounting for HQ, AMCCOM, centrally procured industrial stocks of conventional ammunition components, bulk explosives, propellants, and completed end items awaiting acceptance or shipment to the field service account.

b. CAWCF Assets. Centrally procured industrial stocks maintained on CAWCF accountable records and maintained on Government-owned, Government-operated, Government-owned, contractor-operated (GOGO/GOCO) facilities for the use in load, assemble, and pack (LAP) of conventional ammunition items; including complete items awaiting acceptance and allocation to the customer.

c. Industrial Stocks. Components, parts, assemblies, raw materials, explosives, chemicals, packaging material, and any other material on hand that is to be consumed as a component of the end product. Also included are components to support engineering, lot acceptance, calibration and surveillance testing. (NOTE: Industrial stocks include both plant procured and CAWCF assets).

d. Government Furnished Material. Material provided to an installation by the government from another source, to be consumed as a component of the end product.

e. Plant Procured/Fabricated Material. Industrial components/materials procured or fabricated by an installation to be consumed as a component of the end product.

f. Field Service Stocks. Conventional ammunition complete rounds which have been accepted into the field service account and ready for issue, as well as components of rounds that are programmed for renovation projects controlled by HQ, AMCCOM, Defense Ammunition Directorate.

g. Care, Maintenance, and Surveillance. Care, maintenance and surveillance (CMS) encompasses the following functions:

(1) Actions and preventative measures required to ensure physical protection to stored material. Includes security protection to include locks, seals and alarms, and minor storage facility repair such as door and roof repair. Provides heating, cooling, lighting and dehumidification required to store items in stable condition. Provides fire protection to stored items including alarms, fire extinguishers, vegetation control and sprinkler systems. Storage facility maintenance and repair expenses estimated to exceed a total project cost of \$5,000 require HQ, AMCCOM approval. This excludes equipment maintenance.

(2) Preventative measures and minor repairs to stored items required to maintain the condition of stored items, including maintenance required to alleviate a safety or hazardous condition.

18 JAN 1994

(3) Cyclic, pre-issue and special inspections required to assure the integrity and safety of industrial stocks. The term 'special inspections' primarily applies to stability inspection of propellants or inspections directed by HQ, AMCCOM to determine the general condition of material and criteria for use. Work performed to sort stock for production must be charged to the production order. It also provides storage facility and shipping inspections as well as other required surveillance related functions.

(4) Inventory and reconciliation actions required to assure the accountability of industrial stocks IAW AMCCOMR 700-23.

h. Packing, Crating, and Handling. Generally work performed in association with the movement of industrial stocks to and from the point of storage, for which no open production order exists. Primary functions and exceptions are:

(1) Costs associated with receipt of industrial stocks for the purpose of interim or long-term storage, shipments to another facility, and movements required for cyclic or special inspections such as:

- (a) Removal from or place on a mode of transportation.
- (b) Placement upon conveyance for transfer to shipping dock or storage.
- (c) Movement to storage, shipping dock, or inspection site.
- (d) Packaging, blocking and bracing required for shipment.

(2) Costs associated with initial receipt and initial receipt inspection of components in support of production programs must be charged/allocated to the appropriate production program(s).

(3) Handling costs associated with the movement of components and raw materials from storage to the production line and residual components returned to storage will be charged to the production order.

(4) Costs associated with movement of finished ammunition from the production line to loading dock for shipment or to interim storage awaiting ballistic testing will be charged to the production order.

(5) Ballistically accepted ammunition moving from interim storage to the loading dock for shipment will be charged to the production order, providing action occurs within 60 days from date of acceptance. Handling costs associated with movement of ballistically accepted ammunition 61 days after acceptance will be charged to Operation and Maintenance, Army program element 72111A.

i. Demilitarization. The act of removing the military offensive or defensive advantages of ammunition and explosives (including industrial stock components) which may or may not include the disposal of the item. The term encompasses various approved methods; for example, mutilation, destruction, or alteration to prevent further use for its originally intended military purpose, including the procedures

18 JAN 1994

IOC Regulation 740-1

followed by Explosive Ordnance Disposal units and civilian munition destroyers, to include properly certified contract personnel. It applies equally to material in unserviceable or serviceable condition.

j. Rewarehousing. Other than routine rewarehousing applies to the relocation of industrial stocks to enhance immediate safety requirements, meet changing safety or storage criteria, or to fulfill production operational needs.

k. Small Lot. Two criteria are necessary to define industrial stock small lots. In order to accomplish the desired small lot management, it is necessary to distinguish between usable stocks and stocks which are not usable due to lot integrity criteria. A lot of industrial stocks will be considered small when it meets one of the following criteria:

(1) It is acceptable under lot integrity criteria and the total value of the lot is \$5000.00 or less.

(2) Its size does not meet lot integrity criteria regardless of its total value.

l. Work-In-Process. This term refers to the actual production process for which material has been issued from the CAWCF account to support conventional ammunition production. The WIP may also include plant procured material which is used to support conventional ammunition production.

2. Acronyms.

- a. ACO - Administrative Contracting Officer.
- b. CADS - Cassette Data Acquisition System.
- c. CCSS - Commodity Command Standard System.
- d. CDRL - Contract Data Requirements Listing.
- e. CERCLA - Comprehensive Environmental Response, Compensation and Liability Act.
- f. CFR - Code of Federal Regulations.
- g. COR - Contracting Officer's Representative.
- h. DDT - Detonation and Deflagration Test.
- i. DOD - Department of Defense.
- j. DRMO - Defense Reutilization and Marketing Office.
- k. EWS - Electronic Weather Station.
- l. GOCO - Government-owned, contractor-operated.
- m. GOGO - Government-owned, Government-operated.
- n. LAP - Load, Assemble, and Pack.
- o. NSN - National Stock Number.
- p. OB - Open Burning.
- q. OD - Open Detonation.
- r. PEP - Propellant, Explosives, and Pyrotechnics.
- s. QA - Quality Assurance.
- t. RCRA - Resource, Conservation, and Recovery Act.
- u. SOP - Standing Operating Procedure.
- v. TCLP - Toxicity Characteristic Leaching Procedure.