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DEMOLITION MUNITIONS

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This Manual implements Air Force Policy Directive 21-2, *Munitions* and Air Force Instruction 21-201, *Munitions Management*. It provides demolition munitions (e.g., blasting caps, demolition blocks, dynamite) management guidance for: training, exercises, evaluations, and competitions; peacetime emergency response, operations, testing; and war and contingency operations, and mobility. It provides guidance for establishing, estimating, and changing operational and training munitions authorizations; forecasting correct category codes; and tracking costs. This publication applies to all Air Force personnel to include Air Force Reserve and Air National Guard members. Refer recommended changes and questions about this publication to the office of primary responsibility listed above using the Air Force Form 847, *Recommendation for Change of Publication*; route Air Force Forms 847 from the field through the appropriate chain of command. The authorities to waive wing/unit level requirements in this publication are identified with a Tier (“T-0, T-1, T-2, and T-3”) number following the compliance statement. See Air Force Instruction 33-360, *Publications and Forms Management*, Table 1.1 for a description of the authorities associated with the Tier numbers. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the Publication office of primary responsibility for non-tiered compliance items. Ensure that all records created as a result of processes prescribed in this publication are maintained IAW Air Force Manual 33-363, *Management of Records*, and disposed of in accordance with the Air Force Records Disposition Schedule in the Air Force Records Information Management System. The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force.

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Chapter 1

PROGRAM OVERVIEW

1.1. Purpose. The purpose of this Manual is to provide Air Force demolition munitions management guidance to efficiently define requirements, authorizations, and allocations to support fiscally responsible acquisition and fielding of demolition materials in support of valid training, operational, and mobility mission requirements.

1.2. Scope. The provisions of this manual apply to all Air Force demolition munitions user communities, supporting Munitions Accountable Systems Officers, Munitions User Functional Managers, demolition munitions authorization table office of primary responsibility point of contacts, and Major Commands munitions management staffs.

Chapter 2

ROLES AND RESPONSIBILITIES

2.1. Headquarters Air Force, Deputy Chief of Staff for Logistics Engineering and Force Protection, Director of Civil Engineers (AF/A4C) will:

2.1.1. Provide demolition munitions program policy and oversight. The Director of Civil Engineers is the authority having jurisdiction for demolition munitions guidance.

2.1.2. Provide demolition munitions program direction, policy guidance and strategic oversight through the Explosive Ordnance Disposal Program Director.

2.2. Air Force Installation and Mission Support Center will:

2.2.1. Provide centralized management of above wing-level installation and mission support capabilities and associated resources through detachments and primary support units.

2.2.2. Provide through the Air Force Civil Engineer Center, Primary Support Unit Director demolition munitions program management and functional oversight.

2.2.3. Provide through Air Force Civil Engineer Center Readiness Director overall responsibility for Air Force demolition munitions management, and authority for forecasting, allocating, and developing Air Force demolition munitions budget requests. The Air Force Civil Engineer Center Demolition Munitions Manager serves as the final approval authority for all demolition munitions out of cycle requests and co-chairs annual munitions working group meetings as specified in Air Force Instruction 21-201.

2.3. Global Ammunition Control Point. The Global Ammunition Control Point executes Product Support and Supply Chain Management for Air Force munitions assets. The Global Ammunition Control Point has integrated management of wholesale (i.e., depot) and retail (i.e., Major Command/Base level) munitions supply chain activities, to oversee supply chain processes, technology, and resources to deliver end-to-end warfighter support. Global Ammunition Control Point maintains a munitions management website located at <https://www.my.af.mil/wm/> and is responsible for overseeing the annual munitions forecast, allocation, buy budget, global positioning management cycle, and publish the annual Peacetime Conventional Ammunitions Requirements memorandum directing the annual forecast process.

2.4. Ground Munitions Authorization Tables Office of Primary Responsibility Point of Contact. An office of primary responsibility is assigned to each demolition munition authorization table. That office is responsible for providing a point of contact to answer specific questions about their requirements and to perform annual reviews to validate accurate authorizations for the user community their table supports.

2.5. User Communities. Demolition munition authorization tables support both career field, Major Command, and Air Force Installation and Mission Support Center user communities.

2.5.1. Career Field User Communities. A career field user community supports a single career field across multiple Major Commands (e.g. Security Forces, Civil Engineering). Career field authority to use demolition materials and designation of an office of responsibility for career field authorizations rests with the career field manager.

2.5.2. Major Commands and Air Force Installation and Mission Support Center User Communities. Major Commands and Air Force Installation and Mission Support Center user communities have specific missions within a specific Major Command (e.g. Air Education and Training Command formal training courses, Air Mobility Command & Air Force Reserve Center Expeditionary Training Centers, Air Force Special Operations Command specialized teams). The authority to use demolition materials at designated training sites or in support of Major Commands or Air Force Installation and Mission Support Center specific missions rests with the curriculum manager for the training site or the career field supported.

2.6. Munitions User Functional Manager. Each functional community with munitions requirements (e.g., security forces, explosive ordnance disposal, operations, civil engineering, logistics plans, services, chaplains, maintenance) within the Lead or Supported Major Command or Numbered Air Force appoints a Munitions User Functional Manager to manage functional user requirements, validate unit forecasts, and manage allocations. For those functional communities without a Major Command Munitions User Functional Manager, a Centralized Munitions User Functional Manager may be assigned to support multiple Major Commands via Air Force Installation and Mission Support Center. Munition User Functional Managers will:

2.6.1. Review and understand requirements in Air Force Instruction 21-201, *Munitions Management*, and training guides on their duties and responsibilities.

2.6.2. Follow guidance published in the Peacetime Conventional Ammunitions Requirements Forecast Memorandum published annually by the Global Ammunition Control Point.

(https://www.my.af.mil/ammoprod/wm/general_info_pages/news_and_information.aspx).

2.6.3. Manage demolition munitions forecasts and allocations within their functional area.

2.6.3.1. Perform as the central focal point of all demolition munitions requirements for base-level users assigned to or within their functional areas.

2.6.3.2. Task each subordinate unit to develop and submit requirements or centrally develop their functional demolition munition requirements. If functional requirements are not developed centrally, notify and direct subordinate units to seek assistance from the Munitions Accountable Systems Officer to develop their forecast.

2.6.4. Develop (e.g., collects, consolidates, and validates) their functional area demolition munitions requirements forecast and submit the consolidated forecast.

2.6.5. Seek assistance from the Major Command or Numbered Air Force munitions staff (or equivalent) to develop and submit forecasts. The munitions staff does not validate functional area requirements.

2.6.6. Be able to justify increases or decreases to the Air Force Civil Engineer Center Demolition Munitions Manager upon request.

2.6.7. Coordinate, validate, and submit out of cycle request and allocation transfer requests when requirements change, to transfer allocations within a functional area, or to determine availability of munitions.

2.6.8. After allocations are released, finalize functional area requirements for theater or command positioning decisions in Agile Munitions Support Tool prior to the Global Ammunition Positioning working group convening.

2.7. Munitions Accountable Systems Officer. The Munitions Accountable Systems Officer oversees effective and efficient management of the conventional munitions stockpile in accordance with Air Force Instruction 21-201. The Munitions Accountable Systems Officer:

2.7.1. Ensures no one, in accordance with Air Force Instruction 21-201, expends War Reserve Material demolition munitions Category Codes B, F, G, M, X, and Z in peacetime without approval.

2.7.2. Does not validate functional area demolition requirements, but may assist in developing the user's forecast.

2.7.3. Reviews demolition munitions out of cycle requests. If the Munition Accountable Systems Officer cannot provide an allocation for the out of cycle request, they must forward the request to the Major Command Munitions User Functional Manager for review and resolution. (T-2).

2.8. Operational Users.

2.8.1. Organizations that use demolition munitions must forecast for munitions in accordance with Air Force Instruction 21-201, the guidance published annually in the Peacetime Conventional Ammunitions Requirements memorandum distributed by the Global Ammunition Control Point, and Major Command or Air Force Installation and Mission Support Center Munitions User Functional Manager direction. (T-1). Forecasts will be based on projected use and reference authorizations listed in the Ground Munitions Authorization Tables. Authorizations in the Ground Munitions Authorization Tables are standardized maximum allowances. For handling and transporting of explosive materials operational users must follow the guidance in Air Force Manual 91-201, *Explosives Safety Standards*. (T-1).

2.8.1.1. Organizations should forecast for minimum quantities required to meet training, mission and mobility requirements.

2.8.1.2. Organizations may forecast for quantities that exceed Ground Munitions Authorization Tables authorizations but must provide detailed explanations (training plans, range clearance requirements, mission increase, historical data, etc.) to justify exceeding standard authorizations. (T-2). Units may use the out of cycle request process for one-time non-recurring requirements that exceed Ground Munitions Authorization Table levels.

2.8.1.3. Organizations should continue to use Ground Munitions Authorization Tables at <https://www.my.af.mil/ammoprod/wm/GMAT/tables.aspx>, to forecast ground security munitions (e.g., small arms ammunition, grenades, and grenade simulators).

2.9. Test Managers. Demolition munitions are used to support various explosive impact, weapons, blast and fragmentation effects, render safe, and disposal procedures testing. Test managers must ensure compliance with the operational user requirements outlined in **Paragraph 2.8.** of this manual and safety requirements in Air Force Manual 91-201. (T-2).

2.9.1. Since many test operations are one-time events a Ground Munitions Authorization Table may not be available to authorize demolition items to support required test operations. When this occurs, test agencies will develop demolition munition forecasts based on test plans and historical data. **(T-2)**.

2.9.2. Calculations must be included in the Agile Munitions Support Tool forecast calculations block with an entry in the comment block that requirements are for test support not covered in existing tables. **(T-2)**.

Chapter 3

DEMOLITION MUNITIONS REQUIREMENTS AND AUTHORIZATIONS

3.1. General Information. Munitions requirements are typically derived from standard authorizations, forecasted and approved in the form of an allocation.

3.1.1. Standard authorizations are developed by user communities and approved by the Air Force Demolition Munitions Manager at the Air Force Civil Engineer Center Explosive Ordnance Disposal Division. Authorizations are published on the Global Ammunition Control Point website Community Page under Ground Munitions Authorization Tables <https://www.my.af.mil/ammoprod/wm/GMAT/tables.aspx>. These authorizations serve as the foundation for all munitions requirements forecasting, budgeting, acquisition, allocation, and positioning decisions. Therefore, accurate and diligent requirement reviews by authorization table office of primary responsibility points of contacts are essential.

3.1.2. Requirements are forecasted and approved as allocations through an annual process initiated by the Global Ammunition Control Point by publishing the Peacetime Conventional Ammunition Requirements Forecast Memorandum. Approved allocations are published on the Global Ammunition Control Point's Forecast Allocation Module/Agile Munitions Support Tool located at <https://www.my.af.mil/ammoprod/amst/amtne400.jsp>."

3.2. Establishing Demolition Munitions Authorizations. Units or functions responsible for an operational mission or training program utilizing demolition materials will send requests to create a munitions authorization to the parent Major Command Munitions User Functional Manager. **(T-1)**. Each request will:

3.2.1. Contain complete explanation of the need for the specific munitions, including how the requirement was calculated (i.e., operational mission [air base defense basic quantity] or training [number of students or classes], × [amount of munitions], × [number of classes or sessions per year]). **(T-1)**

3.2.2. Include annual requirement for each munitions type. **(T-1)**.

3.2.3. State if requirement is an increase or decrease over previous requirements and include the previous years' consumption reports. **(T-1)**.

3.2.4. State when munitions are required. **(T-1)**.

3.2.5. Recommend category/requirement code. **(T-1)**.

3.2.6. Be reviewed and validated by the Major Command Munitions User Functional Manager. **(T-1)**. If the user does not have a Munitions User Functional Manager, the supporting Major Command staff director will appoint one in writing that will coordinate requests through the servicing Major Command munitions staff. **(T-2)**.

3.2.7. New user communities must route the request through their Headquarters Air Force career field functional manager. **(T-1)**. The Headquarters Air Force functional community career field manager will verify that all personnel that use, expend, initiate, or dispose of demolition materials for which these authorizations are being established can and will:

3.2.7.1. Comply with requirements in Air Force Instruction 21-201, paragraph 2.3, “Commanders (or equivalent) of Non-munitions Organizations that Use, Possess, or Maintain Munitions.” (T-1).

3.2.7.2. Receive training on all demolition munitions that their career field uses, expends, initiates, or disposes. (T-1).

3.2.7.3. Follow Air Force, career field or local written instructions for all explosive operations. (T-3). Locally developed instructions will comply with Air Force Manual 91-201 and be approved by explosive safety for all demolition munition operations. (T-1).

3.2.7.4. Perform demolition operations in approved locations. (T-1).

3.2.8. Major Command munitions staffs should forward requests to AFCEC/CXD, AFCECCXD@tyndall.af.mil, 139 Barnes Drive, Suite 1, Tyndall Air Force Base, Florida 32403-5319, for coordination and inclusion in revisions of the Ground Munitions Authorization Tables located on the Global Ammunition Control Point website at <https://www.my.af.mil/ammoprod/wm/GMAT/tables.aspx>.

3.3. Changing Authorizations. Send requests for changes to the Munitions User Functional Manager and Major Command munitions staff for review and validation. (T-1). The request will be forwarded, with supporting documents, to AFCEC/CXD, 139 Barnes Drive Suite 1, Tyndall Air Force Base, Florida 32403-5319, for coordination. (T-1).

3.3.1. Units may request a one-time allocation for items needed for special projects, missions, or training not covered by the Ground Munitions Authorization Tables by submitting an Out of Cycle allocation request in the Agile Munitions Support Tool, <https://www.my.af.mil/ammoprod/wm/>.

3.3.2. Units may request interim changes to a munitions authorization.

3.3.3. Each request will explain how the new requirement was calculated. (T-2).

3.3.4. Requests for increases in training munition authorizations must include historical utilization rates and explanation why an increase is warranted. (T-2).

3.4. Annual Review of Authorizations. Air Force Civil Engineer Center Demolition Munitions Manager will contact Ground Munitions Authorization Tables office of primary responsibility point of contacts between June and August of each year to review current authorizations, category and requirement codes, office of primary responsibilities, and authorization notes. Changes are due back to Air Force Civil Engineer Center Demolition Munitions Manager no later than 15 August for incorporation into the Ground Munitions Authorization Tables prior to the start of the next forecast cycle.

3.4.1. The annual munitions forecast cycle runs from September to January of the following year at which time the forecast is validated. A change to authorization tables during the forecast cycle creates confusion with the potential of invalidating work performed by others. Therefore, very few changes will be permitted during the forecast cycle.

3.4.2. Once the forecast and subsequent allocations are complete units may request changes to their authorizations in accordance with procedures in [Paragraph 3.2](#).

3.5. Forecasting Demolition Munitions Requirements. Use Ground Munitions Authorization Tables to develop annual munitions forecasts. All ground munitions (e.g., small

arms ammo, grenades, simulators) are found under the “Ground Munitions” heading on the left side of the screen. All demolition munitions (e.g., C-4, blasting caps, detonating cord) are found under the “Demolition Munitions” heading on the right side of the screen. In some cases, ground munitions are listed and highlighted within a demolition munitions table to provide a comprehensive “package” (i.e. course requirements, Unit Tasking Codes, etc.). Each activity responsible for an operational mission or for providing training with munitions will:

3.5.1. Determine type and quantity of munitions needed to support peacetime and contingency needs. **(T-2)**.

3.5.2. Determine number of participants or classes requiring training during the forecast period and compute required demolition munitions quantities. **(T-2)**.

3.5.3. Forecast for the minimum amount required to meet peacetime and contingency needs. **(T-2)**. A reference to the appropriate Ground Munitions Authorization Tables must be included for each item and if quantities exceed table authorizations then additional justification must be provided. **(T-1)**.

3.5.4. Units should review historical training demolition munitions expenditure data when forecasting Category D training requirements. Current year expenditure percentages and historical munitions expenditure reports are available for review on the Global Ammunition Control Point website within the Forecast Allocation Model, under “Reports” (current year - <https://www.my.af.mil/ammoprod/amst/amtne400.jsp>) (historical expenditures - [https://www.my.af.mil/ammoprod/wm/me/Munitions Expenditure Report.aspx](https://www.my.af.mil/ammoprod/wm/me/Munitions_Expenditure_Report.aspx)). Forecasters must adequately populate “Comments” and “Alibi” fields in the Forecast Allocation Module/Agile Munitions Support Tool program to provide Air Staff convenient access to justification for requirements variances of plus or minus 10% of past expenditure history. **(T-1)**.

3.5.5. Provide total munitions requirements as directed by the Munitions User Functional Manager, in accordance with Air Force Instruction 21-201, paragraph 8-11. **(T-1)**. Munitions User Functional Managers will validate all unit and consolidated forecasts for accuracy and completeness.

3.6. Munitions Requirements Forecast Category/Requirement Codes. A complete listing of munitions category/requirement codes used for munitions forecasting is available on the Agile Munitions Support Tool website. The following category/requirement codes are typically used for demolition munitions:

3.6.1. Category A: Provides for a requisitioning objective to support immediate replacement of critical items allocated in another Category. Replacement requirements are based on high-use of the item during daily or current operations, shelf or service life expiration, vest and kit requirements, or time-change issues. For demolition munitions this is primarily used by the Military Working Dog community.

3.6.2. Category B: Munitions required for all ground forces for use upon arrival at deployed location in preparation for combat / operational missions. Explosive Ordnance Disposal Category B allocations may be used in wartime to support Category D training to maintain qualification / proficiency while deployed. Examples of a Category B items are all munitions on Explosive Ordnance Disposal 4F9X* Unit Type Code 3-day supply deployable packages (BB) and Explosive Ordnance Disposal mobility pre-positioned stocks (BE); Military

Working Dog training kits in support of Unit Type Code QFECF; and RED HORSE demolition packages in Unit Type Code 4F9JH . **NOTE:** Category B munitions can be and should be used and reported under Category B when deployed in support of named operations.

3.6.3. Category C: Non-expendable Training and Test: Peacetime static-level (non-War Reserve Material and non-consumable) munitions. Includes items used for display, hands on, and familiarization training. For example, flights should use code C CC (Non-expendable inert training to include Explosive Ordnance Disposal, Emergency Management, Civil Engineer, Life Support, etc.) for non-expendable training assets.

3.6.4. Category D: Expendable Training. This category includes all items consumed for training. For example: proficiency training, air shows, demonstrations, open houses, internal and external training, exercises, inspections, and any other routine and or planned training events.

3.6.5. Category E: Test and Development Munitions. Munitions expended for research, development, test and evaluation support, and for special projects. For example, conducting ballistic testing of "bullet proof" glass, body armor and plate armor, force protection blast testing, test plans supporting Department of Homeland Security tests, and support to research, development, test and evaluation at other locations for tools, techniques and or weapon system development, will forecast requirements and expend munitions under this category.

3.6.6. Category T: Current Operations. Provides munitions for real-world operational situations and daily operations. Demolition munitions expended for current/daily operations. Some examples of use are Explosive Ordnance Disposal render-safe munitions stocks for render safe procedures and emergency response operations (unplanned events); planned range clearances; and Combat Control operational missions/deployments.

3.6.7. Category Y: Explosive Ordnance Disposal. Used to identify and process items disposed of by Explosive Ordnance Disposal activities.

3.6.8. Category Z: Standard Air Munitions Package munitions designated for pre-positioning at standard air munitions package locations for rapid deployment. Standard air munitions package demolition material requirements are identified by AFCEC/CXD to the Global Ammunition Control Point, Air to Surface Munitions Directorate (OO-ALC/WM), and prepared for call-forward by theater commanders as needed in their area of responsibility.

Chapter 4

RECORDS MANAGEMENT AND REPORTING

4.1. Records and Reports. Records and reports of munitions expended are used to establish, validate, and enable future years Program Objective Memorandum. The Air Staff, Munitions Staff, and Munitions User Functional Manager uses these records and reports of past munitions expenditures to establish realistic forecasts in support of future operational and training requirements necessary for accurate budget development and acquisition planning.

Chapter 5

TRAINING ALLOCATION REQUIREMENTS AND UTILIZATION RATES

5.1. Training Allocations Requirements Validation. Munitions User Functional Managers will review the demolition munitions forecast and ensure Category D training requirements are consistent with historical expenditure data. Munitions User Functional Managers will ensure justification is included in the forecast for any requirement deviating from the previous year's validated requirement by more than 10 percent.

5.2. Training Allocation Utilization Rates. Units are responsible for accurately forecasting and using demolition munitions to develop and maintain proficiency in explosive operations, combat tactics, and explosive detection (i.e. military working dog handlers). Purchasing, storing, and maintaining more material than is required is not fiscally responsible. Units must forecast for what they need, and use what they receive. (T-3). Effective training plans are crucial to meeting this objective and must be developed prior to forecasting and implemented throughout the year. (T-3).

5.3. Munitions Expenditure Reports. Units should compare allocations versus expenditures in March of each year to verify the accuracy of their allocation. If they have expended less than 40% percent of their allocation they should update training plans and consider returning portions of allocations (especially items that are below a 25% expenditure rate). End of Year reports must be generated from AMMO WEB (<https://www.my.af.mil/ammoprod/amtne400.jsp>) to evaluate expenditures in preparation for the annual forecast. (T-2).

Chapter 6

SPECIAL INSTRUCTIONS

6.1. Special Instructions:

6.1.1. To use or procure commercial off-the-shelf demolition explosives and munitions, requesting units must process the request and comply with the guidelines in Air Force Instruction 21-201 and Air Force Manual 91-201. **(T-1)**.

6.1.2. If training conditions do not permit use of identified munitions, Major Commands or Air Force Installation and Mission Support Center may authorize units to forecast for substitute items.

6.1.3. Inactive/Obsolete Explosive Ordnance Disposal Training Items. Explosive Ordnance Disposal units that retain obsolete items for continued proficiency training in accordance with Air Force Instruction 21-201, will maintain accountability of these items in the Automated Civil Engineer System Expeditionary Engineering module. **(T-1)**.

Chapter 7

LEAD TIME FOR DELIVERY OF MUNITIONS

7.1. Lead Time for Delivery of Munitions. New or increased munitions requirements may not be available for two or more years after the forecast. Programming, approval, funding, and procurement actions make up this lead time. The Air Force's ability to support operational and training requirements directly depends upon the timeliness and accuracy of forecasts. Munitions users should order only what they can use and use what they order.

JOHN B. COOPER, Lt Gen
DCS/Logistics, Engineering & Force Protection

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFPD 21-2, *Munitions*, 18 May 2017

AFI 21-201, *Munitions Management*, 3 June 2015

AFI 33-360, *Publications and Forms Management*, 1 December 2015

AFMAN 91-201, *Explosive Safety Standards*, 21 March 2017

AFMAN 33-363, *Management of Records*, 1 March 2008, IC-1

JP 3-42, *Joint Explosive Ordnance Disposal*, 9 September 2016

Prescribed Forms

None.

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

Terms

Explosive Ordnance Disposal —1. The detection, identification, on-site evaluation, rendering safe, recovery, and final disposal of unexploded explosive ordnance. 2. The organizations engaged in such activities. Also called EOD. (JP 3-42)

Demolition Munitions Authorization Table —A table under the Ground Munitions Authorization Table that provides information on establishing or changing a demolition munition requirement as well as listing demolition munitions for training, operational and mobility usage.

Munition—A complete device charged with explosives; propellants; pyrotechnics; initiating composition; or chemical, biological, radiological, or nuclear material for use in operations including demolitions. (JP 3-42)

Munition User Functional Manager—Manage functional user demolition munitions requirements, validate unit forecasts, and manage allocations. Each functional community with munitions requirements within the Lead or Supported MAJCOM/Numbered Air Force (NAF) appoints a MUFM.

Render Safe Procedures—The portion of the explosive ordnance disposal procedures involving the application of special explosive ordnance disposal methods and tools to provide for the interruption of functions or separation of essential components of unexploded explosive ordnance to prevent an unacceptable detonation. (JP 3-42)