Department of the Army and the Air Force National Guard Bureau Arlington, VA 22202-3231 25 July 2003

### Construction

# ARMY NATIONAL GUARD FACILITIES CONSTRUCTION

By Order of the Secretaries of the Army and the Air Force:

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Official:

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**History**. This is a total rewrite of NGR (AR) 415-10, 15 August 1994, which is hereby superseded. Because the regulation has been extensively revised, the changed portions have not been highlighted.

**Summary.** This regulation establishes policy concerning programming the military construction of those buildings and supporting items for Army National Guard readiness centers and logistics, aviation and training facilities supportable with Federal funds.

Applicability. This regulation establishes standards that apply to all Federally funded Army National Guard construction.

**Proponent and exception authority.** The proponent of this regulation is the Chief of Installations, National Guard Bureau, Army Installations Division, NGB-ARI. The Chief of Installations has the authority to approve exceptions to this regulation that are consistent with controlling law and regulation. However, this authority may not be delegated.

**Management Control Process.** This regulation contains management control provisions in accordance with AR 11–2, but it does not identify key management controls that must be evaluated. They are contained in NG Pam 415-5.

**Supplementation.** Supplementation of this regulation requires the approval of the National Guard Bureau, Army Installations Division, NGB-ARI, 111 South George Mason Drive, Arlington, VA 22204-1382.

**Suggested Improvements.** Users of this regulation are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to the National Guard Bureau, Army Installations Division, NGB-ARI, 111 South George Mason Drive, Arlington, VA 22204-1382.

Distribution: B.

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# Chapter 1 General

# 1-1. Purpose

This regulation establishes authority to construct certain facilities either through Federal contracts or through State contracts reimbursed totally or in part by the Federal government. This authority applies both to projects funded from the military construction appropriation and the operations and maintenance appropriation. Other facilities required on an infrequent basis, and for which construction authorization is not specifically provided here, will be established by authority for similar facilities, but the actual allowances may be adjusted according to the State's documented mission requirements.

# 1-2. References

Required and related publications 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

- a. The Chief, National Guard Bureau (CNGB), through the Chief of Installations:
- (1) Establishes Army National Guard (ARNG) type facilities and facility allowances used by the Army National Guard of the 50 States, District of Columbia, and three possessions.
- (2) On the basis of these allowances, programs for funds to construct justified readiness centers, surface maintenance and logistics, aviation, and training facilities.
  - b. The Army Installations Division (NGB-ARI):
- (1) Ensures that all allowances meet the criteria of 10 U.S.C. Chapter 1803, DoDD 1225.7, DoDI 1225.8, MIL-STD-3007, and other relevant statutes and published DoD and DA policies.
- (2) Ensures that allowances and criteria are in accordance with up-to-date industry construction standards, practices, codes, and principles.

#### 1-5. Policy

National Guard Bureau (NGB) policy regarding types of facilities, materials, installed equipment, and space authorizations eligible for Federal support in ARNG construction projects is as follows:

- a. Readiness Center, Logistics, Aviation, and Training Facilities. Only those facilities specified in this regulation are authorized for construction with Federal funds, unless a waiver granting an exception is obtained. (Specific justification is required for each proposed facility.) Specific design/construction criteria guidance set forth in NG Pam 415-12 and in NGB design guides apply for all projects, except where contravened by State or local requirements for projects located on non-Federal property. Where specific guidance is not contained in NG Pam 415-12 or the design guides, MIL-STD-3007 (the DoD standard for establishing criteria) shall apply.
- b. Federal Support. To qualify for Federal support, materials and equipment incorporated, "built-in", or installed within an ARNG construction project will not exceed the standards set forth in NG Pam 415-12 and its references unless NGB-ARI has approved in writing an exception to criteria. These standards are prescribed on the basis of providing high quality, sustainable, maintainable, long lasting, flexible, responsive, and cost effective facilities that will both bring pride to the community and the unit and cost relatively little to operate and maintain.
- c. Space and Materials Criteria. Space and materials criteria in references and as established in NG Pam 415-12 are to be considered maximum allowable (unless otherwise indicated) for use in determining Federal contributions toward construction costs. Use of full maximum allowances is permissible rather than mandatory, because local conditions may warrant the construction of smaller, less expensive facilities.
- d. Deviation from Allowances. Deviation from allowances and criteria established by this regulation, NG Pam 415-12, and references may be authorized, provided:
  - (1) The Federal cost of construction is not increased by the deviation from the standard; or,
- (2) Items that exceed stated criteria have been requested and approved as "Exceptions to Criteria" on DD Forms 1390/1391 or by memorandum.
- e. Non-Federal Funds. This regulation does not preclude the use of non-Federal funds to provide additional space or to provide materials, equipment or features of higher quality than stipulated, provided, however, that operations and maintenance costs are not materially increased by inclusion of the feature in question. However, the cost of such space or improvements must be determined as required in NGR 415-5, NG Pam 415-12 and the appropriate NGB design guide.

f. Federal Regulation Compliance. Federal funds will be used to support requirements of Environmental Protection Agency and Occupational Safety and Health Act regulations, the Americans with Disabilities Act, the National Historic Preservation Act, and other Executive Orders, Codes of Federal Regulations, and United States Codes.

- g. Code Compliance. Compliance with standards established in codes required by State law and/or the National Fire Protection Association (NFPA) shall be supported with Federal funding. The most stringent code shall govern. In case of issue, the State Construction and Facilities Management Officer (CFMO) shall certify to NGB-ARI the applicable code.
- h. Facilities will include adequate space for storage of equipment in the proper locations (i.e., home station, mobilization station, central storage, etc.)
- i. Basis for Construction. Allowances established in this regulation and references will be used as the basis for construction of new facilities and for modification or expansion of existing facilities. Changes, exceptions, or additional features will be considered only when essential to facility operation or the mission/readiness of the supported units. Modification to an existing structure is authorized when the building is structurally sound and suitable, the cost of modification is substantially less than the total project cost of new construction, and estimated maintenance and utility costs are not excessive. Each proposal for modification of an existing structure shall be supported by a feasibility study, including a locally generated economic analysis.

# **Chapter 2 Readiness Center Projects**

# 2-1. Space Allowances

NG Pam 415-12 provides space allowances for determining the size of a readiness center.

### 2-2. Building Size of Readiness Centers

- a. Readiness center capacity will be based upon the total required strength of all units programmed for assignment at the facility. Some functional areas, however, will be sized based on the maximum number of soldiers required to conduct inactive duty training (IDT) concurrently. A Troop Command will be treated as a separate unit, even if collocated with the State Area Readiness Command (STARC).
- b. Units with required strengths of fewer than 55 are not authorized a separate facility and must be programmed as part of a multiple-unit readiness center, unless approved as an exception to criteria. Exclusive use space for such units will be according to NG Pam 415-12.

# 2-3. Armed Forces Reserve Centers

- a. When a readiness center is constructed as a joint-use facility with another reserve component (including the Air National Guard), the joint-use facility will be known as an "Armed Forces Reserve Center" (AFRC). To be classified as an AFRC, however, there must be at least 20 members from at least one other reserve component apart from the ARNG.
- b. The AFRC capacity will be based upon the total required strength of all units programmed for assignment at the facility. Some functional areas, however, will be sized based on the maximum number of soldiers required to conduct IDT concurrently.
- c. In an AFRC, the following functional areas are classified as joint-use areas and the sharing of construction costs will be based upon the ratio of the ARNG's exclusive use space, which is based on its authorized force structure (personnel and equipment), to the facility's total authorized exclusive use space. However, the rifle range and the food preparation and scullery areas are classified as joint use only if more than one component has a requirement for the area in question.
  - (1) Assembly hall
  - (2) Rifle range
  - (3) Classrooms
  - (4) Conference rooms
  - (5) Food preparation area
  - (6) Scullery area
  - (7) Rest rooms
  - (8) Physical fitness area and showers
  - (9) Break room and vending area
  - (10) Flammable materials storage
  - (11) Table/chair storage for common use areas

d. The remaining functional areas of NG Pam 415-12 Schedule I and all Schedule II areas are classified as soleuse. Each reserve component will support 100 percent of the cost of construction of all functional areas for which it is solely responsible.

- e. Outside support facilities, including site preparation, utilities, walks, pavements, etc. are classified as joint-use facilities and costs for each will be supported at the same ratio as derived for respective shares of costs for the building. However, the following areas are designated as sole-use: military vehicle parking, fuel dispensing system, and similar items.
- f. Respective shares of the construction costs for the building, apportioned between the reserve components, are to be based on the proportion of the total area (including mechanical/electrical/telephone room, circulation, and corridors and stairwells, but excluding partitions and walls), and the sum of both sole-use and the calculated share of joint-use for each reserve component.
  - g. The ARNG share of the total construction project cost will be supported with 100 percent Federal funds.
- h. Operations and maintenance support for the constructed facility is governed by NGB-AQ Cooperative Agreement directives. Allocation of these costs among the components is governed by an Interagency Support Agreement negotiated in accordance with DoDI 1225.8 and DoDI 4000.19.

# 2-4. Unheated Enclosed or Shed-Type Vehicle Storage Space

- a. Federal support for enclosed or shed-type storage is authorized for military motor vehicles authorized at readiness centers in locations that meet one of the following criteria. The Federal share shall be the same as for the construction of the readiness center.
- (1) The heating design temperature, as determined from the 97 1/2 percent column in TM 5-785 is minus (-) 10 degrees Fahrenheit dry bulb or lower.
  - (2) The annual snowfall exceeds 30 inches.
  - (3) There is an extremely corrosive atmosphere. (This condition must be documented.)
  - (4) The military motor vehicles have high cost, sophisticated electronics.
- b. The number of military motor vehicles for which covered/ enclosed storage space may be provided shall not exceed allowances provided by the applicable TOE and/or TDA, less those vehicles located elsewhere. When enclosed or shed-type storage is provided, the amount of paved area authorized for parking of military vehicles at the site shall be reduced by the area of this covered space.

# **Chapter 3 Logistics Facilities**

# 3-1. General

This chapter establishes the policy for ARNG logistics facility construction projects. Logistics facility construction costs are supported 100 percent by Federal funds when such projects conform to the construction and space criteria established by this regulation and its references.

# 3-2. USPFO Offices and Warehouses

- a. Administrative. Net authorized office space for the United States Property and Fiscal Office (USPFO) will be determined using NG Pam 415-12. The total number of employees used for space programming may include Federally reimbursed State employees who work at the USPFO. Space programmed for these employees may not exceed 10 percent of those paid from Federal funds. The following personnel will not be included as office employees: the warehouse supervisor, storekeepers, material handlers, warehouse supply technicians, and warehouse supply clerks, truck drivers, Information Technology (IT) operators, communication center operators, verifier operators. Wherever possible, administrative space will be open, with only the minimum essential number of separate offices constructed. To the maximum practical extent, offices will be joint use, with the number of exclusive offices being kept to the minimum.
- b. Supporting Space. Space may be provided for IT, a telecommunications center, a physical fitness area, and other supporting areas, in accordance with allowances found in NG Pam 415-12.
- c. Warehousing. Net warehousing space, which includes flammable materials storage (FMS), will be according to NG Pam 415-12. Space for vaults, lockers, self-service supply, latrines, offices, and a break area is included in the warehousing allowance.

# 3-3. Surface Equipment Maintenance Facilities

a. General. Maintenance facilities for surface equipment fall into five categories: Field Maintenance Shop (FMS), Unit Training Equipment Site (UTES); collocated Maneuver and Training Equipment Site (MATES); non-

collocated MATES; and Combined Support Maintenance Shop (CSMS). The requirement and type of maintenance performed by these facilities is as follows:

- (1) FMS or FMS Sub-shop (FMSS). An FMS or FMSS may be collocated with a readiness center or may be centrally located to support one or more readiness centers. Each shop is authorized space in which to perform field level maintenance on all vehicles and equipment required by the Table of Organization and Equipment (TOE) or Table of Distribution and Allowance (TDA) for the supported units, except those vehicles and equipment located at a MATES or UTES.
- (2) UTES. A UTES may be provided for maintenance and repair of heavy vehicles and equipment. UTES are authorized space for field level maintenance of training vehicles and equipment authorized at specified training centers.
- (3) Collocated MATES. An approved MATES may be provided for maintenance and repair of heavy vehicles and equipment. A collocated MATES is located at the same site as a CSMS and is dependent upon the CSMS for sustainment level maintenance. It is authorized space for field level maintenance of the training vehicles and equipment authorized at the training center.
- (4) Non-collocated MATES. An approved MATES may be provided for maintenance and repair of heavy vehicles and equipment. A MATES that is located remotely from a CSMS is authorized space for both field and sustainment level maintenance of training vehicles and equipment authorized at the training center.
- (5) CSMS. A CSMS is authorized for sustainment maintenance of all or part of the military vehicles and equipment required to a State. A CSMS is authorized space for field and sustainment level maintenance of all vehicles and equipment except that which receives this level of maintenance at a MATES with a sustainment maintenance mission or at another CSMS authorized to the State.
- b. Space allowances for Maintenance Shops. The space allowance for surface equipment maintenance facilities is contained in NG Pam 415-12.
- (1) Office, work, and personnel areas. The size of authorized functional areas varies as to the type and size of the maintenance facility. Many area sizes are determined by the sum of a basic allowance plus an area (listed under the type of facility) that varies in accordance with the number of general maintenance workbays authorized for the shop, Federal technicians required at the facility, total troop strength supported by the shop, and/or the number of combat vehicles authorized at the shop.
- (2) Military vehicle storage area. Parking is authorized for all vehicles, trailers, equipment, etc., assigned to the UTES and MATES. Parking is also authorized at the FMS, MATES and CSMS for a portion of the vehicles, trailers, equipment, etc., authorized to receive maintenance but not permanently located at the facility.

# 3-4. Direct Support Logistics Facilities

- a. Permanent non-readiness center facilities are authorized for direct support logistical operations where the systems have been authorized by NGB and implemented by the State. Allowances outlined in NG Pam 415-12 are based on requirements of a system utilizing the Standard Army Maintenance System (SAMS).
- b. Space allowances for various functional areas for storage of serviceable and unserviceable Class IX and types of systems are as shown in NG Pam 415-12.
- c. Specified allowances are maximum without an exception to criteria. Each facility should be tailored to actual needs.

# 3-5. Unheated Enclosed or Shed-Type Vehicle Storage Space

- a. Federal support for enclosed or shed-type storage is authorized for military motor vehicles authorized at UTES and MATES in locations that meet one of the following criteria:
- (1) The heating design temperature, as determined from the 97 1/2 percent column in TM 5-785 is minus (-) 10 degrees Fahrenheit dry bulb or lower.
  - (2) The annual snowfall exceeds 30 inches.
  - (3) There is an extremely corrosive atmosphere. (This condition must be documented.)
  - (4) The military motor vehicles have high cost, sophisticated electronics.
- b. The number of military motor vehicles for which covered/ enclosed storage space may be provided shall not exceed allowances provided by the applicable TOE and/or TDA, less those vehicles located elsewhere. When enclosed or shed-type storage is provided, the amount of paved area authorized for parking of military vehicles at the site shall be reduced by the area of this covered space.

# 3-6. Special Purpose Facilities

a. General. Special purpose facilities will be authorized to support requirements of specific mission-related systems developed or created as part of force modernization activities. When so created, special purpose facilities space allowances will be added to NG Pam 415-12 and the appropriate design guide.

- b. Firefinder Radar (AN/TPO-36/37) Facilities.
- (1) General. A training and maintenance facility is authorized for units equipped with Firefinder Radar Sets. A firefinder set is either the XM1048, AN/TPQ-36 and the S250; or the XM1048, AN/TPQ-37, and the S250.
- (2) Location. This facility may be located either at a surface equipment maintenance facility or at a readiness center, whichever is the most cost effective and practical, but not at both. It should generally be located within a military vehicle parking area or adjacent to some other paved area.
- (3) Facility. For detailed design guidance for this facility, refer to the NGB design guide for surface maintenance facilities.

# Chapter 4

# **Army Aviation Facilities**

#### 4-1. General

- a. Space Allowances. Size of aviation facilities will be based on net areas derived from NG Pam 415-12.
- b. Planning. TM 5-803-7 and TM 5-811-5 should be used as the basis for layout and design of both new facilities and modification or expansion of existing facilities. The exception is when there is a conflict between these manuals and one or more of the following:
  - (1) FAA criteria (but only if the facility is a tenant at a commercial airfield).
  - (2) Provisions of this or other NGB publications.
  - (3) The requirements of an applicable state code.
  - c. Layout and location of supporting facilities will conform to prescribed safety clearances.
- d. Funding. Space for aviation support facility projects will be 100 percent Federal funding provided they are within authorized criteria. Any additional space required for unit training will be in accordance with readiness center construction criteria, with funding computed on the basis of 75 percent Federal and 25 percent State. Such space shall be listed separately for programming purposes on another set of DD Forms 1390/1391.

# 4-2. Army Aviation Support Facility (AASF)

- a. An AASF performs backup Aviation Unit Maintenance I (AVUMI) and limited Aviation Intermediate Maintenance (AVIM). (AVIM is that portion of maintenance classed as direct support, except as modified by CNGB).
- b. To be an AASF, the facility must provide maintenance and/or modification of ARNG equipment and provide operation and logistical support for 8 or more ARNG aircraft, or, if CH-47s are stationed at a facility, 7 CH-47 aircraft.
- c. The method used to arrive at space allowances for the aircraft maintenance portion of a AASF, including support shops, is based on the number of TOE and TDA required aircraft. Administrative and personnel oriented areas of an AASF are based on the number of technicians and aircrew members required by TOE/TDA and the number of non-crewmember technicians required at the AASF.

# 4-3. Limited Army Aviation Support Facility (LAASF)

- a. A LAASF may be established in addition to an AASF within the State when geographical and operational/training considerations make centralization of operations unfeasible.
- b. To be a LAASF, the facility must provide maintenance and/or modification of ARNG equipment and provide operation and logistical support for 7 or fewer ARNG aircraft.
  - c. Authorization for a LAASF will be based on an NGB-AVS approved aviation stationing plan.
- d. A LAASF performs backup AVUM I and limited AVUM II maintenance, as well as modification of supported aircraft and allied equipment consistent with authorizations of personnel and equipment. Space allowances for a LAASF is as computed for an AASF, based on "required aircraft," but reduced consistent with the degree of maintenance performed.

### 4-4. Army Aviation Operating Facility (AAOF)

An AAOF to support an operational and logistical requirement at a location must be justified as an exception to criteria. This facility generally supports fewer than 8 aircraft.

# 4-5. Combination Readiness Center and AASF or LAASF

a. As much as possible, States shall collocate AASFs and readiness centers for at least one of the supported units. They may be constructed as a single structure.

b. In accordance with NGR 415-5, the State shall submit separate sets of DD Forms 1390/1391 for the AASF and the readiness center.

# **Chapter 5 Training Facilities**

# 5-1. Training Centers

- a. General. Facilities at installations designated as training centers by the Army Training Division (NGB-ART) are based on the requirements to accommodate ARNG troops during annual training (AT), Active Duty for Training (ADT), Active Duty for Special Work (ADSW), IDT, and mobilization. Required housing, operational, training, administrative, logistical, infrastructure, and other facility types shall be based on NGB-ART's classification of the installation in accordance with NGR 5-3. Detailed guidance regarding construction allowances is in NG Pam 415-12
- b. Space Allowances. Space allowances for training center facilities are authorized as outlined in NGB Pam 415-12 in accordance with the approved State Real Property Development Plan (RPDP), which includes the training center's site development plan. Facilities not listed on the plan may be authorized when individually justified as an exception to criteria.
- c. Special Training Center Facilities. Training centers may be authorized aviation facilities, ammunition supply points, ranges, and other supporting/ancillary facilities, as outlined in NG Pam 415-12 in accordance with any required approvals.

# 5-2. Local Training Areas (LTA)

- a. General. LTAs are training areas designated by NGB-ART in accordance with NGR 5-3 where cantonment-type construction are not justified and facilities are of a type consistent with training in a field environment. Construction may be semi-permanent and shall comply with environmental and pollution control regulations.
- b. Temporary construction is authorized for facilities such as field kitchens, mess shelters, tent pads, and logistical facilities. Ranges and training courses may be authorized when justified. Installation of utilities, construction of roads, security fencing, fuel dispensing systems, and other like projects will be considered on an individual basis when justified.
- c. The Chief of Installations must approve an RPDP with a site development plan for the LTA before NGB-ARI will program construction dollars for the installation. Detailed guidance regarding construction allowances is in NG Pam 415-12.
  - d. Support Facilities. Pads for field kitchens, mess shelters, latrines and wash platforms are authorized.

### 5-3. Educational Facilities

- a. Federal support is authorized for construction of educational facilities in support of The Total Army School System (TASS).
  - b. NGB-ART establishes the location and mission of TASS installations.
  - c. Allowances for TASS facilities are in addition to other facilities on a training center.
- d. TASS facility space allowances are based on the student load as verified and set by NGB-ART, the required strength(s) of the staff as documented on the TDA and other manning documents showing full-time personnel, the numbers and types of equipment required, and special requirements of the supported units.
- e. Detailed guidance regarding construction allowances is in NG Pam 415-12. However, if there are any conflicts between these documents and those of Training and Doctrine Command (TRADOC) for an educational facility teaching the same Program of Instruction (POI), the TRADOC criteria will take precedence.

# Appendix A

# References

Most of these references are available electronically as listed below:

1. United States Code:

www4.law.cornell.edu/uscode/ or

www.access.gpo.gov/congress/cong013.html or

http://uscode.house.gov/usc.htm.

- 2. Code of Federal Regulations: www.access.gpo.gov/nara/cfr/cfr-retrieve.html#page1.
- 3. Executive Orders: <a href="www.nara.gov/fedreg/eo.html">www.nara.gov/fedreg/eo.html</a>. However, this reference, except for recent executive orders, only provides a summary and citations to the Federal Register. The address of the Federal Register is <a href="www.access.gpo.gov/nara/index.html">www.access.gpo.gov/nara/index.html</a>.
  - 4. Office of Management and Budget Circulars: www.whitehouse.gov/omb/circulars/.
  - 5. Acquisition Regulations:

www.arnet.gov/far/ or

www.acq.osd.mil/dp/dars/dfars.html or

http://acqnet.sarda.army.mil/library/zpafar.htm.

- 6. Department of Defense Publications: www.dtic.mil/whs/directives/.
- 7. Department of Defense Financial Management Regulation: www.dtic.mil/comptroller/fmr/.
- 8. DFAS Publications:

www.asafm.army.mil/secretariat/document/dfas37-100/dfas37-100.asp and

- https://dfas4dod.dfas.mil/centers/dfasin/library/ar37-1/.
  9. Army Regulations and Pamphlets: www.army.mil/usapa.
- 10. Technical Manuals: www.usace.army.mil/inet/usace-docs/armytm/.
- 11. U.S. Army Technical Center for Explosive Safety; Site and General Construction Plan Developers Guide, www.dac.army.mil.
  - 12. National Guard Regulations and Pamphlets: <a href="www.ngbpdc.ngb.army.mil/">www.ngbpdc.ngb.army.mil/</a>.

### Section I

# **Required Publications**

# **DoDD 1225.7**

Reserve Component Facilities Programs and Unit Stationing. (Cited in para 1-4b(1).)

# **DoDI 1225.8**

Programs and Procedures for Reserve Component Facilities Programs and Unit Stationing. (Cited in paras 1-4b(1) and 2-3h.)

# **DoDI 4000.19**

Interservice and Intragovernmental Support. (Cited in para 2-3h.)

# MIL-STD-3007

Standard Practice For Unified Facilities Criteria And Unified Facilities Guide Specifications. (Cited in paras 1-4b(1) and 1-5a.)

# NG Pam 415-12

Army National Guard Facilities Allowances. (Cited in paras 1-5a, 1-5b, 1-5c, 1-5d, 1-5e, 2-1, 2-2b, 2-3d, 3-2a, 3-2b, 3-2c, 3-3b, 3-4a, 3-4b, 3-6a, 4-1a, 5-1a, 5-1b, 5-2c, and 5-3e.)

### **NGR 5-3**

Management of Army National Guard Training Centers. (Cited in paras 5-1a and 5-2a.)

### NGR 415-5

Army National Guard Military Construction Program Development and Execution. (Cited in para 1-5e.)

#### P.L. 101-336

Americans With Disabilities Act. (Cited in para 1-5f.)

# TM 5-785

Engineering Weather Data. (Cited in paras 3-5a(1).)

# TM 5-803-7

Civil Engineering Programming Airfield and Heliport Planning Criteria. (Cited in para 4-1b.)

# TM 5-811-5

Army Aviation Lighting. (Cited in para 4-1b.)

# 10 U.S.C. Chapter 1803

Facilities for Reserve Components. (Cited in para 1-4b(1).)

# 16 U.S.C. § 470 et. seq.

National Historic Preservation. (Cited in para 1-5f.)

### **Section II**

**Related Publications** 

### AR 11-27

Army Energy Program

### AR 18-7

Army, Automatic Data Processing Activity Management, Procedures, and Standards.

#### AR 40-5

Preventive Medicine

# AR 55-80

Highways for National Defense

# AR 190-13

The Army Physical Security Program

# AR 190-51

Security of Unclassified Army Property (Sensitive and Non-Sensitive).

#### AR 200-1

**Environmental Protection and Enhancement** 

# AR 200-2

Environmental Effects of Army Actions

# AR 200-3

Natural Resources

# AR 200-4

Cultural Resources Management

# AR 200-5

Pest Management

# AR 385-10

The Army Safety Program

# AR 385-16

System Safety Engineering and Management

### AR 385-63

Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat

# AR 385-64

U.S. Army Explosives Safety Program

### AR 420-49

**Utilities Services** 

# 29 CFR Part 1900.2 - Part 1925.3

Occupational Safety and Health Administration, Department of Labor

# **36 CFR Part 800**

**Protection of Historic Properties** 

### DA Pam 190-51

Risk Analysis for Army Property

# DA Pam 385-64

Ammunition and Explosive Safety Standards

### DA Pam 420-7

Natural Resources - Land, Forest, and Wildlife Management

# **DoDD 4270.5**

Military Construction Responsibilities

### DoDD 6055.9

DoD Explosives Safety Board (DDESB) And DoD Component Explosives Safety Responsibilities

### DoD 6055.9-STD

DOD Ammunition and Explosives Safety Standards

# **Engineer Technical Letter 1110-3-491**

Sustainable Design for Military Facilities

# **Executive Order 11988**

Flood Plain Management

### **Executive Order 11990**

Protection of Wetlands

### **Executive Order 12148**

Federal Emergency Management

# **Executive Order 12873**

Federal Acquisition, Recycling, and Waste Prevention

### **Executive Order 13007**

**Indian Sacred Sites** 

# **Executive Order 13045**

Protection of Children From Environmental Health Risks and Safety Risks

# **Executive Order 13123**

Greening the Government Through Efficient Energy Management

# **Executive Order 13148**

Greening the Government Through Leadership in Environmental Management

# JCS Pub 22

Worldwide Military Command and Control System (WWMCCS) ADP System Security Manual.

# NG Pam 25-1

Training Site General Information Summary

# NG Pam 415-5

Army National Guard Military Construction Program Execution

# NGR 11-27

ARNG Energy Conservation Plan

# NGR (AR) 200-3

State and Federal Environmental Responsibilities

# Sustainable Project Rating Tool (Army Corps of Engineers)

# TM 5-683

**Electrical Interior Facilities** 

### TM 5-684

**Electrical Exterior Facilities** 

# TM 5-803-14

Site Planning and Design

### TM 5-815-2

Utility Monitoring and Control Systems

# TM 5-853-1

Security Engineering: Project Development

# TM 5-1300

Structures to Resist the Effects of Accidental Explosions

### TM 9-1300-206

Ammunition and Explosive Standards

# **Uniform Building Code**

### **USATCESP 385-02**

Site and General Construction Plan Developers Guide

# 10 U.S.C. §172

Ammunition Storage Board

# 15 U.S.C. §§2601-2692

Toxic Substances Control Act

# 16 U.S.C. §§1271-1287

Wild and Scenic Rivers Act

# 16 U.S.C. §§1531-1544

Endangered Species Act.

# 18 U.S.C. §1001

Fraud and False Statements

# 33 U.S.C. §466 et. seq.

Clean Water Act

# 42 U.S.C. §300f et. seq.

Safe Drinking Water Act

# 42 U.S.C. §1996

American Indian Religious Freedom Act

# 42 U.S.C. §§4151-4157

Architectural Barriers Act of 1968

# 42 U.S.C. §§4321-4370a

National Environmental Policy Act

# 42 U.S.C. §§6901-6992

Resource Conservation and Recovery Act

# 42 U.S.C. §§7401-7661

Clean Air Act

# 42 U.S.C. §§9601-9657

Comprehensive Environmental Response, Compensation and Liability Act

### **Section III**

# **Prescribed Forms**

This section has no entries.

# **Section IV**

**Referenced Forms** 

# **DD Form 1390**

FY Military Construction Program. (Cited in paras 1-5d(2), 4-1d, and 4-5c.)

### **DD Form 1391**

FY Military Construction Project Data. (Cited in paras 1-d(2), 4-1d, and 4-5c.)

# Glossary

# Section I

**Abbreviations** 

### **AAOF**

Army Aviation Operating Facility

# **AASF**

Army Aviation Support Facility

#### ADSW

Active Duty for Special Work

# **ADT**

Active Duty for Training

# **AFRC**

Armed Forces Reserve Center

# AR

Army Regulation

# ARNG

Army National Guard

# AT

**Annual Training** 

#### AVIM

Aviation Intermediate Maintenance

# **AVUMI**

Aviation Unit Maintenance I

#### CFMO

Construction and Facilities Maintenance Officer

#### CFR

Code of Federal Regulations

# **CNGB**

Chief, National Guard Bureau

#### CSMS

Combined Support Maintenance Shop

# DA

Department of the Army

#### DD

Department of Defense

# DG

Design Guide

# DoD

Department of Defense

#### DoDD

Department of Defense Directive

# DoDI

Department of Defense Instruction

#### FAA

Federal Aviation Administration

# **FISP**

Facility Inventory and Support Plan

# **FMS**

Field Maintenance Shop

#### FMS

Flammable materials storage

# **IDT**

**Inactive Duty Training** 

# LAASF

Limited Army Aviation Support Facility

# LTA

Local Training Area

# **MATES**

Maneuver and Training Equipment Site

# MIL-STD

Military Standard

# **MTOE**

Modified Table of Organization and Equipment

#### NFPA

National Fire Protection Association

# NG

National Guard

# NGB

National Guard Bureau

# NGB-AQ

National Guard Bureau Acquisition

# NGB-ARI

Army Installations Division

# **NGB-ART**

**Army Training Division** 

# **NGB-AVS**

Army Aviation and Safety Division

# NGR

National Guard Regulation

# Pam

Pamphlet

# P.L.

Public Law

# POI

Program of Instruction

# **RPDP**

Real Property Development Plan

# **SAMS**

Standard Army Maintenance System

# **STARC**

State Area Command

# **TASS**

Total Army School System

#### TDA

Table of Distribution and Allowances

# TM

Technical Manual

#### TOF

Table of Organization and Equipment

### **TRADOC**

U.S. Army Training and Doctrine Command

### U.S.C.

United States Code

### **USPFO**

United States Property and Fiscal Office

# UTES

Unit Training Equipment Site

# **Section II**

Terms

# **Armed Forces Reserve Center**

A structure that houses one or more units of the ARNG and one or more units of another reserve component.

# **Collocated Facilities**

ARNG facilities are considered to be collocated if they have at least one adjacent land-use area boundary in common or are separated only by the width of the vehicle thoroughfare.

# **Combat Vehicle**

For the purpose of this regulation, the term combat vehicles includes tanks, armored personnel carriers, tracked command and reconnaissance vehicles, combat engineer vehicles, self-propelled artillery, tank retrievers and other like type vehicles.

### Construction

The erection, installation, or assembly of a new facility; the relocation of a facility; the complete replacement of an existing facility; or the addition, expansion, extension, alteration, or conversion (to a new type use) of an existing facility. This includes installed building equipment and related site preparation, excavation, filling and landscaping or other land improvements. It also includes increases in components of facilities for functional reasons when a facility is not being repaired and the components are not required to meet current standards, and it includes the extension of utilities to areas not previously served. Construction is an activity that may be a part of either the restoration or modernization program.

# **Facility**

A separate and individual building, structure, utility system, or other real property improvement. It includes supporting elements for structures, such as sidewalks, fire hydrants, gasoline and diesel fuel dispensing systems, flammable materials buildings, roads, fencing, and hard stand.

### **Federal Funds**

The terms "Federal funds" or "Federal costs" refers to funds appropriated for the Army National Guard Military Construction (MCNG) program. It does not include appropriations funding the non-construction aspects of the project. However, in the case of a joint use facility, it may include construction appropriation funds contributed by the other reserve component(s). Also, in the case of projects that fall within the statutory limits of operations and maintenance construction, it refers to the Operations and Maintenance National Guard appropriation (but only that portion supporting the construction aspects of the project).

# **General Maintenance Workbay**

These workbays include organization and support workbays, but exclude special purpose bays.

#### Hardstand

This is an area constructed of crushed stone, gravel, slag, shale, or similar materials. These materials are shaped and compacted into position without addition of binder materials.

#### Installation

An aggregation of contiguous or near contiguous, common mission-supporting real property holdings under the jurisdiction of the State, the District of Columbia, territory, or commonwealth controlled by and at which an ARNG unit or activity is permanently assigned. For the purpose of Installation Status Report reporting and the calculation of programming inventory, each State shall be considered a separate installation. However, for real property inventory reporting, each entity with a FISP installation number will be reported as an installation.

# **Life Cycle Cost Analysis**

An analysis of the economic feasibility of an item, system, feature, or facility by considering all significant costs of ownership over an economic life, expressed in terms of equivalent costs. Such an analysis of economic results in a determination as to whether any increase in initial construction cost due to inclusion of the feature or system would be recouped during its lifetime by decreases in operating and/or maintenance costs, when calculated in discounted dollars and using documentable current local fuel cost and escalation forecasts as prepared by the Office of the Secretary of Defense.

# **List of Supported Facilities**

A list of facilities approved by NGB and supported under the National Guard Master Cooperative Agreement and Appendices.

# **Logistical Facilities**

Includes all surface equipment maintenance repair facilities, USPFO offices and warehouses, Army Aviation facilities, Direct Support Logistics facilities, unheated enclosed or shed-type vehicle storage facilities.

#### MCNG

The Army National Guard Military Construction appropriation

# **Military Vehicles**

Motorized or towed vehicles, wheeled or track, required to units by TOE, MTOE, or TDA.

# **Motor Vehicle**

Motor vehicles are self-propelled military equipment, including amphibious equipment, classed as 1/4-ton or over in size.

# **Readiness Center**

A structure that houses one or more units of the ARNG and is used for home station training and unit administration. It includes adjacent or supporting structures that are used for unit training, storage, and administration.

### Replacement

Reconstruction of a real property facility destroyed or damaged beyond the point at which it may be economically repaired. Complete replacement is classified as construction.

# **Required Strength**

The number of personnel stated in the TOE/TDA.

# **Special Purpose Workbay**

Includes all workbays except organizational and support workbays. Examples are welding/body shop bay, warm-up bay, wash bay, paint shop, lube bay trans/powerpack bay, tire bay, and electronic bay.