

# **UNIFIED FACILITIES CRITERIA (UFC)**

## **DoD FACILITIES PRICING GUIDE FOR FY 2010**



**APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED**

**UNIFIED FACILITIES CRITERIA (UFC)**  
**DoD FACILITIES PRICING GUIDE FOR FY 2010**

Any copyrighted material included in this UFC is identified at its point of use.  
Use of the copyrighted material apart from this UFC must have the permission of the  
copyright holder.

DEPUTY UNDER SECRETARY OF DEFENSE FOR INSTALLATIONS AND  
ENVIRONMENT (Preparing Activity)

U.S. ARMY CORPS OF ENGINEERS

NAVAL FACILITIES ENGINEERING COMMAND (Preparing Activity)

AIR FORCE CIVIL ENGINEER SUPPORT AGENCY

Record of Changes (changes are indicated by \1\ ... /1/)

| Change No. | Date | Location |
|------------|------|----------|
|            |      |          |
|            |      |          |
|            |      |          |
|            |      |          |

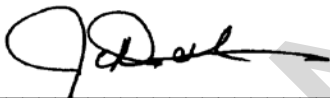
## FOREWORD

The Unified Facilities Criteria (UFC) system is prescribed by MIL-STD 3007 and provides planning, design, construction, sustainment, restoration, and modernization criteria, and applies to the Military Departments, Defense Agencies, and DoD Field Activities in accordance with [USD\(AT&L\) Memorandum](#) dated 29 May 2002. UFC will be used for all DoD projects and work for other customers where appropriate. All construction outside of the United States is also governed by Status of Forces Agreements (SOFA), Host Nation Funded Construction Agreements (HNFA), and in some instances, Bilateral Infrastructure Agreements (BIA). Therefore, the acquisition team must ensure compliance with the more stringent of the UFC, the SOFA, the HNFA, and the BIA, as applicable.

UFC are living documents and will be periodically reviewed, updated, and made available to users as part of the Services' responsibility for providing technical criteria for military construction. Headquarters, U.S. Army Corps of Engineers (HQUSACE), Naval Facilities Engineering Command (NAVFAC), and Air Force Center for Engineering and the Environment (AFCEE) are responsible for administration of the UFC system. Defense agencies should contact the preparing service for document interpretation and improvements. Technical content of UFC is the responsibility of the cognizant DoD working group. Recommended changes with supporting rationale should be sent to the respective service proponent office by the following electronic form: [Criteria Change Request \(CCR\)](#). The form is also accessible from the Internet sites listed below.

UFC are effective upon issuance and are distributed only in electronic media from the Whole Building Design Guide web site: <http://dod.wbdg.org/>.

Hard copies of UFC printed from electronic media should be checked against the current electronic version prior to use to ensure that they are current.



---

JAMES C. DALTON, P.E.  
Chief, Engineering and Construction  
U.S. Army Corps of Engineers



---

JOSEPH E. GOTT, P.E.  
Chief Engineer  
Naval Facilities Engineering Command



---

DENNIS FIRMAN, P.E.  
Director of the Air Force Center for Engineering  
and the Environment  
Department of the Air Force



---

MICHAEL McANDREW  
Director, Facility Investment and  
Management  
Office of the Deputy Under Secretary of Defense  
(Installations and Environment)

UNIFIED FACILITIES CRITERIA (UFC)  
REVISION SUMMARY SHEET

**Subject:** UFC 3-701-01

**Cancels:** UFC 3-701-09, dated September 2009

**Description of revision:** This revision:

1. Adopts a standard permanent UFC number in lieu of a dynamic UFC number that changes each year to reflect the year of publication
2. Updates all UFC tables (listed below) for FY 2010 using pricing data available as of January 2010.

|  |    |
|--|----|
| Table 2-1: Facility Unit Costs for Military Construction ..... | 3  |
| Table 3-1: Unit Costs for DoD Facility Cost Models .....       | 11 |
| Table 4-1: Area Cost Factors .....                             | 32 |
| Table 4-2: Military Construction Escalation Rates .....        | 42 |
| Table 4-3: PRV Escalation Rates .....                          | 43 |
| Table 4-4: Operation and Maintenance Escalation Rates .....    | 44 |

## CONTENTS

|   |    |
|---|----|
| CHAPTER 1 INTRODUCTION.....   | 1  |
| 1-1 <b>SCOPE</b> .....  | 1  |
| 1-1.1 <b>Chapter 2: Unit Costs for Military Construction Projects</b> ..... | 1  |
| 1-1.2 <b>Chapter 3: Unit Costs for DoD Facilities Cost Models</b> .....     | 1  |
| 1-1.3 <b>Chapter 4: Cost Adjustment Factors</b> .....                       | 1  |
| 1-2 <b>DATA TABLES</b> .....  | 1  |
| 1-3 <b>PROPONENT</b> .....  | 1  |
| CHAPTER 2 UNIT COSTS FOR MILITARY CONSTRUCTION PROJECTS.....                | 2  |
| 2-1 <b>OVERVIEW</b> .....   | 2  |
| 2-2 <b>FACILITY UNIT COST TABLE</b> .....                                   | 2  |
| CHAPTER 3 UNIT COSTS FOR DOD FACILITIES COST MODELS.....                    | 6  |
| 3-1 <b>OVERVIEW</b> .....   | 6  |
| 3-2 <b>REPLACEMENT UNIT COSTS</b> .....                                     | 6  |
| 3-2.1 <b>Definition</b> .....   | 6  |
| 3-2.2 <b>Use of Replacement Unit Costs</b> .....                            | 6  |
| 3-3 <b>SUSTAINMENT UNIT COSTS</b> .....                                     | 7  |
| 3-3.1 <b>Definition</b> .....   | 7  |
| 3-3.2 <b>Use of Sustainment Unit Costs</b> .....                            | 8  |
| 3-4 <b>MODERNIZATION FACTORS</b> .....                                      | 8  |
| 3-4.1 <b>Definitions</b> .....  | 8  |
| 3-4.2 <b>Use of Modernization Factors</b> .....                             | 8  |
| 3-5 <b>OPERATION UNIT COSTS</b> .....                                       | 9  |
| 3-5.1 <b>Definition</b> .....   | 9  |
| 3-5.2 <b>Use of Operation Unit Costs</b> .....                              | 9  |
| 3-6 <b>UNIT COST HEIRARCHY</b> .....  | 9  |
| 3-7 <b>REVISING UNIT COSTS</b> .....  | 10 |
| CHAPTER 4 COST ADJUSTMENT FACTORS.....                                      | 30 |
| 4-1 <b>LOCATION ADJUSTMENTS</b> .....                                       | 30 |
| 4-2 <b>ESCALATION</b> .....   | 42 |
| 4-2.1 <b>Military Construction</b> .....                                    | 42 |
| 4-2.2 <b>Plant Replacement Value Escalation Rates</b> .....                 | 43 |
| 4-2.3 <b>Facilities Sustainment and Operation</b> .....                     | 43 |

## TABLES

|   |    |
|---|----|
| Table 2-1: Facility Unit Costs for Military Construction..... | 3  |
| Table 3-1: Unit Costs for DoD Facility Cost Models.....       | 11 |
| Table 4-1: Area Cost Factors.....                             | 32 |
| Table 4-2: Military Construction Escalation Rates.....        | 42 |
| Table 4-3: PRV Escalation Rates.....                          | 43 |
| Table 4-4: Operation and Maintenance Escalation Rates.....    | 44 |

## CHAPTER 1 INTRODUCTION

### 1-1 SCOPE

The DoD Facilities Pricing Guide supports a spectrum of facility planning, investment, and analysis needs. This version of the Guide reflects updated cost and pricing data for FY 2010 intended to support preparation of the DoD budget for FY 2012. It includes reference information organized into three chapters:

#### 1-1.1 Chapter 2: Unit Costs for Military Construction Projects

Chapter 2 provides facility unit cost data for selected DoD facility types in support of preparing Military Construction (MILCON) project documentation (DD Forms 1391) and other project-level estimates in accordance with UFC 3-700-01A *Programming Cost Estimates for Military Construction*.

#### 1-1.2 Chapter 3: Unit Costs for DoD Facilities Cost Models

Chapter 3 provides unit costs in support of DoD facilities cost models. These unit costs are based upon the reported average DoD facility size or an established benchmark size, as annotated for each Facility Analysis Category (FAC) in the DoD Real Property Classification System (published separately). These unit costs are intended for macro-level analysis and planning rather than individual facilities or projects.

#### 1-1.3 Chapter 4: Cost Adjustment Factors

Chapter 4 provides cost adjustment factors for location and future price escalation that are applicable to the base unit costs in both chapters 2 and 3.

### 1-2 DATA TABLES

For the convenience of UFC users, all data tables in this UFC are available as part of the supporting documentation download file accompanying this UFC on the Whole Building Design Guide web site:

[http://www.wbdg.org/ccb/DOD/UFC/ufc\\_3\\_701\\_01\\_FY10supplement.zip](http://www.wbdg.org/ccb/DOD/UFC/ufc_3_701_01_FY10supplement.zip).

### 1-3 PROPONENT

The Office of the Deputy Under Secretary of Defense for Installations and Environment is the proponent for the Facilities Pricing Guide. Recommendations from users toward improving the usefulness of this reference are welcome.

## CHAPTER 2 UNIT COSTS FOR MILITARY CONSTRUCTION PROJECTS

### 2-1 OVERVIEW

The facility unit costs in this chapter apply to preparation of programming-level cost estimates for constructing military facilities in accordance with the methodology described in UFC 3-700-01A. The unit cost table is also maintained and available on the National Institute of Bldg Science (NIBS) Construction Criteria Database (CCB) through the Whole Building Design Guide (WBDG). As explained in UFC 3-700-01A, these unit costs are not to limit more detailed cost estimates.

### 2-2 FACILITY UNIT COST TABLE

Table 2-1 provides facility unit costs for various DoD facility types in dollars per square meter (\$/m<sup>2</sup>) and equivalent English unit cost data in dollars per square foot (\$/SF) as of October 2009. The listed facility types represent those facilities most frequently constructed by the Military Services.

The unit costs in Table 2-1 are average unit costs from actual project awards since September 2006 for Army, Navy, Air Force, and (for medical projects) TRICARE Management Activity from the HII unit cost database. The database includes new construction projects in the U.S.; it does not include renovation or add/alter projects, or projects outside of the U.S.

The unit costs include the following:

- minimum antiterrorism design features (reference UFC 4-010-01 *DoD Minimum Antiterrorism Standards for Buildings*) meeting Table B-1 standoff distance requirements
- an average sales tax

The unit costs do not include the following:

- gross receipt taxes or gross excise taxes. (Arizona, Mississippi, Washington, and New Mexico have varying amounts of gross receipt taxes in lieu of a sales tax. Hawaii has a general excise tax.)
- “Acts of God” or unusual market conditions

Applicable adjustments for gross receipt or excise taxes, Acts of God, and unusual market conditions shall be documented and added to the cost estimate.

Various qualifications and restrictions apply to the unit costs in Table 2-1. These are specified in the leading notes.

**Table 2-1: Facility Unit Costs for Military Construction – Leading Notes**

General: Facility unit costs include installed (built-in) building equipment and furnishings normally funded with MILCON funds. Unit costs are for primary facilities only and do not include the following:

- supporting facility costs
- equipment acquired with other fund sources, including pre-wired workstations or furnishing systems, intrusion detection systems
- sustainable design and construction features; these will be estimated separately in accordance with component guidelines and documented on DD form 1391 per DoD Instruction 4170.11, *Installation Energy Management*, and applicable component guidance
- state imposed gross receipts taxes and general excise taxes
- special foundations, evidence-based design, intrusion detection system installation, base exterior architectural preservation guidelines
- enhanced Anti-Terrorism (AT) standards (exceeding the minimum in UFC 4-01-01, or when minimum standoff distances [Table B-1] are not achieved)
- construction contingency allowances
- supervision, inspection, and overhead (SIOH)
- design costs (design-build contracts)
- construction cost growth resulting from user changes, unforeseen site conditions, or contract document errors and omissions, unusual market conditions (for example material shortages, labor shortages, or Acts of God)

Medical facilities: Unit costs include category A and category B equipment, but do not include category E and category F equipment costs.

Barracks and unaccompanied officers quarters: Unit costs do not include free-standing kitchen equipment. In addition to using the size adjustment factors, use the project size adjustment factors in UFC 3-700-01A.

Child development centers: Unit costs do not include free-standing food service equipment or playground area and equipment.

Family housing: Unit costs are based upon gross area and include sprinkler systems or fire-rated construction. Unit costs include post-award design costs.

Reserve facilities other than reserve centers: Use the unit cost of the appropriate facility type.



**Table 2-1: Facility Unit Costs for Military Construction**

| <b>Unit Costs for Military Construction</b>                                 | Reference<br>size | Oct 2009<br>unit cost | Reference<br>size | Oct 2009<br>unit cost |
|---|-------------------|-----------------------|-------------------|-----------------------|
| <b>FACILITY TYPE</b>  | (gross SM)        | (\$/SM)               | (gross SF)        | (\$/SF)               |
| COMMUNICATIONS BUILDINGS:   |                   |                       |                   |                       |
| SATELLITE COMMUNICATIONS CENTER   | 550               | 7,112                 | 6,000             | 661                   |
| INTELLIGENCE COMMUNICATION CENTER   | 3,720             | 3,410                 | 40,000            | 317                   |
| AIRCRAFT OPERATIONS BUILDINGS:  |                   |                       |                   |                       |
| WITHOUT TOWER   | 2,300             | 2,830                 | 25,000            | 263                   |
| CONTROL TOWER (STAND-ALONE)   | VM*               | 116,360               | VF**              | 35,475                |
| AIRFIELD FIRE AND RESCUE STATION (does not<br>include central alarm system) | 2,800             | 3,325                 | 30,000            | 309                   |
| OPERATIONS BUILDINGS:   |                   |                       |                   |                       |
| GENERAL PURPOSE   | 2,300             | 2,087                 | 25,000            | 194                   |
| SQUADRON / BATTALION  | 3,350             | 2,529                 | 36,000            | 235                   |
| APPLIED INSTRUCTION BUILDINGS:  |                   |                       |                   |                       |
| GENERAL INSTRUCTION   | 2,300             | 2,475                 | 25,000            | 230                   |
| HIGH TECH/SIMULATION TRAINING (High Bay)                                    | 2,300             | 2,959                 | 25,000            | 275                   |
| RESERVE CENTER (see note)   | 4,480             | 1,948                 | 48,000            | 181                   |
| HANGARS:  |                   |                       |                   |                       |
| MAINTENANCE / GENERAL PURPOSE   | 7,440             | 2,486                 | 80,000            | 231                   |
| HIGH BAY MAINTENANCE  | 5,600             | 2,647                 | 60,000            | 246                   |
| CORROSION CONTROL   | 3,250             | 3,228                 | 35,000            | 300                   |
| SHOPS:  |                   |                       |                   |                       |
| VEHICLE MAINTENANCE   | 2,800             | 2,130                 | 30,000            | 198                   |
| AIRCRAFT AVIONICS   | 2,150             | 1,969                 | 23,000            | 183                   |
| INSTALLATION MAINTENANCE  | 2,900             | 1,722                 | 31,000            | 160                   |
| PARACHUTE AND DINGHY  | 375               | 2,281                 | 4,000             | 212                   |
| AIRCRAFT MACHINE SHOP   | 1,860             | 2,443                 | 20,000            | 227                   |
| STORAGE FACILITIES:   |                   |                       |                   |                       |
| COLD STORAGE PROCESSING   |                   | ***                   | -                 | ***                   |
| COLD STORAGE WAREHOUSE  |                   | ***                   |                   | ***                   |
| GENERAL PURPOSE WAREHOUSE – LOW BAY   | 3,700             | 1,140                 | 40,000            | 106                   |
| GENERAL PURPOSE WAREHOUSE – HIGH BAY  | 9,290             | 1,291                 | 100,000           | 133                   |
| GENERAL PURPOSE MAGAZINE W/O CRANE  | 375               | 2,755                 | 4,000             | 256                   |
| HIGH EXPLOSIVE MAGAZINE   | 450               | 2,636                 | 5,000             | 245                   |
| ARMORY  | 930               | 2,217                 | 10,000            | 206                   |
| MEDICAL FACILITIES (see note):  |                   |                       |                   |                       |
| INPATIENT HOSPITAL / MED CENTER   | NA                | 4,734                 | NA                | 440                   |
| MEDICAL CLINIC (FREE STANDING)  | 6,500             | 3,250                 | 70,000            | 302                   |
| DENTAL CLINIC   | 1,670             | 4,326                 | 18,000            | 402                   |
| AMBULATORY CLINIC   |                   | ***                   |                   | ***                   |
| MEDICAL CLINIC (attached to HOSPITAL / MED<br>CENTER)                       | 13,950            | 3,745                 | 150,000           | 348                   |
| ADMINISTRATIVE FACILITIES:  |                   |                       |                   |                       |
| MULTI-PURPOSE ADMIN   | 6,040             | 2,281                 | 65,000            | 212                   |

| <b>Unit Costs for Military Construction</b>                                 | Reference<br>size | Oct 2009<br>unit cost | Reference<br>size | Oct 2009<br>unit cost |
|---|-------------------|-----------------------|-------------------|-----------------------|
| <b>FACILITY TYPE</b>  | (gross SM)        | (\$/SM)               | (gross SF)        | (\$/SF)               |
| DATA PROCESSING AREA FACILITY (includes admin and storage)                  | 1,950             | 2,959                 | 21,000            | 275                   |
| COMMAND HEADQUARTERS BUILDING   | 3,700             | 2,582                 | 40,000            | 240                   |
| UNACCOMPANIED HOUSING:  |                   |                       |                   |                       |
| BARRACKS / DORMITORY (does not include kitchenette equipment)               | 9,250             | 2,272                 | 99,500            | 211                   |
| RECRUIT OPEN BAY  | 23,250            | 1,915                 | 250,000           | 178                   |
| OFFICERS QUARTERS (does not include kitchenette equipment)                  | 4,100             | 2,195                 | 44,000            | 204                   |
| DINING FACILITY (includes kitchen equipment and installation)               | 2,000             | 3,357                 | 21,500            | 312                   |
| TEMPORARY LODGING FACILITY  |                   | ***                   |                   | ***                   |
| FAMILY HOUSING (see note):  |                   |                       |                   |                       |
| CONUS FAMILY HOUSING  | NA                | NA                    | NA                | 113                   |
| OCONUS FAMILY HOUSING   | NA                | 1,948                 | NA                | 181                   |
| FAMILY SUPPORT FACILITIES:  |                   |                       |                   |                       |
| CHILD DEVELOPMENT CTR (under 6 years old)                                   | 2,300             | 2,389                 | 25,000            | 222                   |
| CHILD DEVELOPMENT CTR (school age)  | 1,860             | 2,841                 | 20,000            | 264                   |
| EDUCATION CENTER  | 2,800             | 2,313                 | 30,000            | 215                   |
| YOUTH CENTER  | 1,860             | 2,496                 | 20,000            | 232                   |
| FAMILY SERVICE CENTER   | 450               | 2,249                 | 5,000             | 209                   |
| COMMUNITY SUPPORT FACILITIES:   |                   |                       |                   |                       |
| FIRE STATION, COMMUNITY   | 1,125             | 2,572                 | 12,000            | 239                   |
| CHAPEL CENTER   | 1,400             | 2,905                 | 15,000            | 270                   |
| COMMISSARY (sales store w/ operational equipment)                           |                   | ***                   |                   | ***                   |
| PHYSICAL FITNESS TRAINING CENTER  | 6,050             | 2,184                 | 65,000            | 203                   |
| MAIN EXCHANGE (w/ mall service shops)                                       |                   | ***                   |                   | ***                   |
| SERVICE CLUB  |                   | ***                   |                   | ***                   |
| LIBRARY   |                   | ***                   |                   | ***                   |
| RECREATION CENTER   |                   | ***                   |                   | ***                   |
| BOWLING CENTER (8 lanes w/ pin-spotting and automatic scoring equipment)    |                   | ***                   |                   | ***                   |
| DEPENDENT SCHOOLS:  |                   |                       |                   |                       |
| ELEMENTARY SCHOOL   | NA                | 2,217                 | NA                | 206                   |
| JUNIOR HIGH / MIDDLE SCHOOL   | NA                | 2,227                 | NA                | 207                   |
| HIGH SCHOOL   | NA                | 2,335                 | NA                | 217                   |
| PARKING GARAGE / BUILDING (450 SF/vehicle includes turning space and ramps) | 16,260            | 570                   | 175,000           | 53                    |

\* Unit cost per vertical meter

\*\* Unit cost per vertical foot

\*\*\* Insufficient pricing data in the Historical Analysis Generator (HII) @ [www.hnd.usace.army.mil/HII](http://www.hnd.usace.army.mil/HII)

## CHAPTER 3 UNIT COSTS FOR DOD FACILITIES COST MODELS

### 3-1 OVERVIEW

This chapter describes the unit costs and related factors used in support of DoD facilities cost models. These are intended for macro-level analysis and planning and should not be used for individual facilities or project estimates.

Unit costs and related factors are associated with Facility Analysis Categories (FACs) represented by a 4-digit code in the DoD Real Property Classification System (RPCS), a hierarchical scheme of real property types and functions that serves as the framework for identifying, categorizing, and modeling the department's inventory of land and facilities. FACs are common across the department and suitable for department-wide applications. For each FAC, Table 3-1 identifies the associated unit cost or factor to be used in DoD facilities cost models and metrics.

Whenever possible, unit costs and factors have been based upon commercial benchmarks. Detailed supporting data for unit costs is available as part of the supporting documentation download file accompanying this UFC on the Whole Building Design Guide web site:

[http://www.wbdg.org/ccb/DOD/UFC/ufc\\_3\\_701\\_01\\_FY10supplement.zip](http://www.wbdg.org/ccb/DOD/UFC/ufc_3_701_01_FY10supplement.zip).

### 3-2 REPLACEMENT UNIT COSTS

#### 3-2.1 Definition

Replacement provides a complete and useable facility capable of serving the purpose of the original facility. Replacement costs include construction of standard foundations, all interior and exterior walls and doors, the roof, utilities out to the 5-foot line, all built-in plumbing and lighting fixtures, security and fire protection systems, electrical distribution, wall and floor coverings, heating and air conditioning systems, and elevators. Not included are project costs such as design, supporting facility costs, special foundations, equipment acquired with other funding sources (e.g. mission-funded range targets), contingency costs, and supervision, inspection, and overhead (SIOH). Also not included are items generally considered personal property such as computer systems, telephone instruments, and furniture.

#### 3-2.2 Use of Replacement Unit Costs

Replacement unit costs form the basis of calculating plant replacement value in a consistent manner across DoD. Plant replacement value represents the cost to design and construct a notional facility to current standards to replace an existing facility at the same location. The standard DoD formula for calculating plant replacement value is:

$$\text{Plant Replacement Value} = \text{Facility Quantity} \times \text{Replacement Unit Cost} \times \text{Area Cost Factor}^1 \times \text{Historical Records Adjustment}^2 \times \text{Planning and Design Factor}^3 \times \text{Supervision Inspection and Overhead Factor}^4 \times \text{Contingency factor}^5$$

Replacement unit costs can also support large-scale program-level estimates for re-stationing plans with the addition of allowance for site preparation, earthwork, landscaping, and related factors. Replacement unit costs should not be used for individual project estimates.

### 3-3 SUSTAINMENT UNIT COSTS

#### 3-3.1 Definition

Sustainment provides for maintenance and repair activities necessary to keep a typical inventory of facilities in good working order over their expected service life. It includes:

- regularly scheduled adjustments and inspections, including maintenance inspections (fire sprinkler heads, HVAC systems) and regulatory inspections (elevators, bridges)
- preventive maintenance tasks
- emergency response and service calls for minor repairs
- major repair or replacement of facility components (usually accomplished by contract) that are expected to occur periodically throughout the facility service life

Sustainment includes regular roof replacement, refinishing wall surfaces, repairing and replacing electrical, heating, and cooling systems, replacing tile and carpeting, and similar types of work.<sup>6</sup> It does not include repairing or replacing non-attached equipment or furniture, or bldg components that typically last more than 50 years (such as foundations and structural members). Sustainment does not include restoration, modernization, environmental compliance, specialized historical preservation,<sup>7</sup> general facility condition inspections and assessments, planning and design (other than shop drawings), or costs related to acts of God, which are funded elsewhere. Other tasks

<sup>1</sup> A geographic location adjustment for costs of labor, material, and equipment, published in Chapter 4.

<sup>2</sup> An adjustment to account for increased costs for replacement of historical facilities or for construction in a historic district; the current value of the factor is 1.05.

<sup>3</sup> A factor to account for the planning and design of a facility; the current value of this factor is 1.09 for all but medical facilities and 1.13 for medical facilities.

<sup>4</sup> A factor to account for the supervision, inspection, and overhead activities associated with the management of a construction project; the current value of the factor is 1.06 for facilities in the continental US (CONUS) and 1.065 for facilities outside of the continental US (OCONUS).

<sup>5</sup> A factor to account for construction contingencies; the current value of the factor is 1.05.

<sup>6</sup> Facilities Sustainment also generally allows for overhead costs, which include architectural and engineering services.

<sup>7</sup> Specialized historical preservation costs are those for customized components or materials that are no longer readily available.

associated with facilities operations (such as custodial services, grass cutting, landscaping, waste disposal, and the provision of central utilities) are also not included.<sup>8</sup>

### 3-3.2 Use of Sustainment Unit Costs

Sustainment unit costs represent the annual average sustainment cost for each FAC, and serve as the basis for calculating annual facilities sustainment requirements for DoD using the following formula:

$$\text{Sustainment requirement} = \text{Facility Quantity} \times \text{Sustainment Unit Cost} \times \text{Area Cost Factor}^9 \times \text{Inflation Factor}$$

## 3-4 MODERNIZATION FACTORS

### 3-4.1 Definitions

Modernization, along with restoration, improves facilities. Modernization consists of alteration of facilities solely to implement new or higher standards (including regulatory changes), to accommodate new functions, or to renew building components that typically last more than 50 years (such as foundations and structural members). Restoration includes repair and replacement work to restore facilities damaged by inadequate sustainment, excessive age, disaster, accident, or other causes. Restoration and modernization do not include recurring sustainment tasks or certain environmental measures which are funded elsewhere. Other tasks associated with facilities operations (such as custodial services, grounds services, waste disposal, and the provision of central utilities) are also not included.

### 3-4.2 Use of Modernization Factors

Modernization factors represent the average annual decrease in facility value over the useful service life due to obsolescence. Conversely, this value represents the average annual investment required to preserve the original facility value, adjusted for inflation, through modernization. As such, modernization factors are fractional values with no units (such as dollars) that are used in conjunction with plant replacement value to generate estimates of modernization funding requirements.

Modernization factors are calculated using the following formula:

$$\text{Annual modernization factor} = \text{total depreciation (\%)} / \text{useful service life}$$

Where the total depreciation is a percent of total facility value, and the useful service life is expressed in years for each FAC.

<sup>8</sup> Facilities Sustainment Program Element (PE) definition.

<sup>9</sup> A geographic location adjustment for costs of labor, material, and equipment.

In turn, the modernization factor is used to generate the average annual modernization requirement using the following formula:

$$\text{Modernization requirement} = \text{PRV} \times \text{modernization factor}$$

### 3-5 OPERATION UNIT COSTS

#### 3-5.1 Definition

Facilities Operation describes the functions associated with the use of facilities or infrastructure: fire and emergency services, provision of energy utilities, provision of water/wastewater utilities, pavement clearance, refuse collection and disposal, real property leases, grounds maintenance and landscaping, pest control, custodial services, real property management and engineering services, energy management, and readiness engineering.

#### 3-5.2 Use of Operation Unit Costs

Operation unit costs represent the annual average “bare” operational cost for each FAC, and serve as the basis for calculating annual facilities operations requirements for DoD using the following formula:

$$\text{Operation requirement}^{10} = \frac{\text{Facility Quantity} \times \text{Operation Unit Cost} \times \text{Locality Index}^{11} \times \text{Inflation}}{\text{Factor}}$$

### 3-6 UNIT COST HEIRARCHY

Unit costs for DoD cost models are classified by the following hierarchy of data sources:

Source 1: Standard, easily-accessible published data. Source 1 is the most desirable due to ease of access, wide applicability, and lack of bias. Examples include the DoD Tri-Service Committee on Cost Engineering, Service-specific cost guidance (USACE, USAF), commercial cost-estimating guidelines or models (e.g., M&S or Whitestone), or other Government-published cost guidance from federal, state, or local government agencies (e.g. Fairfax County (Virginia) Park Authority).

Source 2: Source 1 cost factors that are applied to facilities with similar but not identical characteristics (e.g., sewage waste treatment facilities and industrial waste treatment facilities). Source 2 also includes unpublished government or trade association cost data (e.g. CEAC), and Service-validated cost factors for non-standard facilities that have no commercial counterparts (e.g. missile launch facilities or military ranges).

Source 3: Includes unpublished project-specific data derived from Service project documents (e.g. DD Forms 1391) or by calculating costs from reported plant

<sup>10</sup> For each operation function

<sup>11</sup> A geographic location adjustment for costs of labor, material, and equipment for each operational function, equivalent to the Area Cost Factor for construction or sustainment.

replacement value and inventory, or derived from using a ratio of sustainment to construction from a similar Source-1 Facilities Analysis Category (e.g. FAC 2115, Aircraft Maintenance Hangar, Depot derived from FAC 2111, Aircraft Maintenance Hangar).

### **3-7 REVISING UNIT COSTS**

Users of this UFC are encouraged to suggest revisions to the published cost factors, particularly for facilities unique to their mission. Submit proposed changes to the proponent office in accordance with the following guidelines:

- Revised costs should come from an equivalent or superior source
- Revised costs should be easily audited
- Revised costs should be consistent with the functional definitions
- Revised costs should be consistent with the scope of the Facility Analysis Category
- Revised costs should be suitable for application throughout DoD

Table 3-1: Unit Costs for DoD Facility Cost Models

| (not to be used for military construction projects) |   |    | Unit costs (\$FY 2010) |             |                  |                |                |                   |               |                |              | Useful Svc Life (years) | Modernization Factor (no units) |
|---|---|----|------------------------|-------------|------------------|----------------|----------------|-------------------|---------------|----------------|--------------|-------------------------|---------------------------------|
| FAC   | FAC Title                                   | UM | Replacement            | Sustainment | Water/Wastewater | Real Prop Mgmt | Custodial Svcs | Refuse Collection | Grounds Maint | Pvmt Clearance | Pest Control |                         |                                 |
| 1111  | Fixed-Wing Runway, Surfaced                 | SY | \$170.49               | \$1.37      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.2782      | \$0.1379       | \$0.0608     | 45                      | 0.0133                          |
| 1112  | Rotary-Wing Landing Area, Surfaced          | SY | \$70.22                | \$1.06      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.1192      | \$0.1379       | \$0.0261     | 45                      | 0.0133                          |
| 1113  | Runway Overrun Area, Surfaced               | SY | \$70.22                | \$0.86      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.2782      | \$0.1379       | \$0.0608     | 45                      | 0.0133                          |
| 1114  | Runway, Unsurfaced                          | SY | \$9.95                 | \$0.21      | \$0.0000         | \$0.0163       | \$0.0000       | \$0.0000          | \$0.2782      | \$0.0005       | \$0.0608     | 45                      | 0.0133                          |
| 1121  | Taxiway, Surfaced                           | SY | \$70.22                | \$1.04      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.0696      | \$0.1379       | \$0.0152     | 60                      | 0.0099                          |
| 1122  | Rotary-Wing Taxiway, Surfaced               | SY | \$70.22                | \$1.04      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.0696      | \$0.1379       | \$0.0152     | 60                      | 0.0099                          |
| 1131  | Aircraft Apron, Surfaced                    | SY | \$98.67                | \$1.04      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.0000      | \$0.1379       | \$0.0000     | 60                      | 0.0099                          |
| 1161  | Compass Calibration Pad, Surfaced           | SY | \$98.67                | \$1.04      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.0696      | \$0.0489       | \$0.0152     | 60                      | 0.0099                          |
| 1162  | Missile Launching Pad, Surfaced             | SY | \$98.67                | \$1.04      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.0696      | \$0.0489       | \$0.0152     | 60                      | 0.0099                          |
| 1163  | Aircraft Washing Pad, Surfaced              | SY | \$98.67                | \$1.04      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.0696      | \$0.0489       | \$0.0152     | 60                      | 0.0099                          |
| 1164  | Miscellaneous Airfield Pavement, Surfaced   | SY | \$98.67                | \$1.04      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.0696      | \$0.1379       | \$0.0152     | 60                      | 0.0099                          |
| 1165  | Aircraft Pavement Shoulder                  | SY | \$70.22                | \$1.04      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.0696      | \$0.0489       | \$0.0152     | 60                      | 0.0099                          |
| 1166  | Miscellaneous Airfield Pavement, Unsurfaced | SY | \$9.95                 | \$0.21      | \$0.0000         | \$0.0163       | \$0.0000       | \$0.0000          | \$0.0696      | \$0.0005       | \$0.0152     | 45                      | 0.0133                          |
| 1167  | Aircraft Rinse Facility                     | SY | \$161.91               | \$1.04      | \$0.0000         | \$0.2291       | \$0.0000       | \$0.0000          | \$0.0696      | \$0.0489       | \$0.0152     | 30                      | 0.0210                          |
| 1211  | Aircraft Fueling Facility                   | GM | \$1,994.53             | \$7.86      | \$0.0000         | \$0.7102       | \$0.0000       | \$0.0000          | \$0.0000      | \$0.0000       | \$0.0000     | 30                      | 0.0210                          |
| 1212  | Aircraft Defueling Facility                 | GM | \$1,994.53             | \$7.86      | \$0.0000         | \$0.7102       | \$0.0000       | \$0.0000          | \$0.0000      | \$0.0000       | \$0.0000     | 30                      | 0.0210                          |
| 1221  | Marine Fueling Facility                     | GM | \$365.13               | \$0.41      | \$0.0000         | \$0.0553       | \$0.0000       | \$0.0000          | \$0.0000      | \$0.0000       | \$0.0000     | 37                      | 0.0170                          |
| 1231  | Vehicle Fueling Facility                    | OL | \$114,731.07           | \$465.85    | \$0.0000         | \$28.90        | \$0.0000       | \$0.0000          | \$0.0000      | \$0.0000       | \$0.0000     | 25                      | 0.0252                          |
| 1241  | Aircraft Operating Fuel Storage             | GA | \$4.35                 | \$2.07      | \$0.0000         | \$0.0098       | \$0.0000       | \$0.0000          | \$0.0018      | \$0.0000       | \$0.0000     | 31                      | 0.0199                          |
| 1242  | Marine Operating Fuel Storage               | GA | \$13.55                | \$2.07      | \$0.0000         | \$0.0098       | \$0.0000       | \$0.0000          | \$0.0018      | \$0.0000       | \$0.0000     | 31                      | 0.0199                          |
| 1243  | Vehicle Operating Fuel Storage              | GA | \$3.19                 | \$2.07      | \$0.0000         | \$0.0098       | \$0.0000       | \$0.0000          | \$0.0018      | \$0.0000       | \$0.0000     | 31                      | 0.0199                          |
| 1244  | Other Operating Fuel Storage                | GA | \$2.31                 | \$2.07      | \$0.0000         | \$0.0098       | \$0.0000       | \$0.0000          | \$0.0018      | \$0.0000       | \$0.0000     | 31                      | 0.0199                          |
| 1251  | POL Pipeline                                | LF | \$402.36               | \$6.94      | \$0.0000         | \$0.2516       | \$0.0000       | \$0.0000          | \$0.0000      | \$0.0000       | \$0.0000     | 31                      | 0.0199                          |



**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title                                 | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 1261 | Liquid Fuel Loading/Unloading Facility    | OL | \$104,755.02           | \$749.42    | \$0.0000             | \$10.71           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0252  |
| 1262 | POL Pump Station                          | SF | \$1,843.24             | \$23.85     | \$0.0000             | \$1.36            | \$0.0000          | \$0.0000             | \$0.0077         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 1311 | Communications Building                   | SF | \$296.89               | \$3.16      | \$0.1884             | \$0.4737          | \$1.23            | \$0.0869             | \$0.0077         | \$0.0000          | \$0.0326        | 50                               | 0.0120  |
| 1312 | Satellite Communications Building         | SF | \$489.00               | \$8.22      | \$0.0979             | \$1.18            | \$1.23            | \$0.0869             | \$0.0077         | \$0.0000          | \$0.0326        | 50                               | 0.0123  |
| 1321 | Communications Facility                   | EA | \$48,378.81            | \$539.26    | \$0.0000             | \$100.15          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0123  |
| 1331 | Aircraft Navigation Building              | SF | \$284.23               | \$7.15      | \$0.0000             | \$0.6806          | \$1.23            | \$0.0869             | \$0.0077         | \$0.0000          | \$0.0109        | 50                               | 0.0120  |
| 1341 | Aircraft Navigation Facility              | EA | \$9,950.94             | \$110.92    | \$0.0000             | \$20.65           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0123  |
| 1351 | Communications Lines                      | MI | \$89,729.67            | \$146.78    | \$0.0000             | \$185.75          | \$0.0000          | \$0.0000             | \$21.72          | \$0.0000          | \$0.0000        | 28                               | 0.0221  |
| 1361 | Airfield Pavement Lighting                | LF | \$67.97                | \$7.13      | \$0.0000             | \$1.03            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 20                               | 0.0301  |
| 1362 | Airfield Lighting                         | EA | \$3,144.84             | \$47.23     | \$0.0000             | \$5.85            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 20                               | 0.0301  |
| 1371 | Ship Navigation Building                  | SF | \$296.89               | \$3.61      | \$0.2501             | \$0.4765          | \$1.23            | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1381 | Ship Navigation Facility                  | EA | \$14,581.44            | \$162.53    | \$0.0000             | \$30.44           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0123  |
| 1402 | Air Defense Operations Building           | SF | \$296.89               | \$3.04      | \$0.1070             | \$0.4779          | \$1.23            | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1403 | Missile Operations Building               | SF | \$296.89               | \$5.20      | \$0.1070             | \$0.9740          | \$1.23            | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1404 | Emergency Operations Center / SCIF        | SF | \$246.27               | \$4.53      | \$0.1070             | \$0.4382          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0134  |
| 1411 | Airfield Fire And Rescue Station          | SF | \$309.00               | \$3.47      | \$0.5685             | \$0.5507          | \$0.0000          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 1412 | Aviation Operations Building              | SF | \$263.00               | \$3.25      | \$0.5610             | \$0.5268          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1413 | Air Control Tower                         | SF | \$848.87               | \$2.84      | \$0.1857             | \$1.52            | \$1.23            | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 35                               | 0.0176  |
| 1421 | Helium Production/Storage Building        | SF | \$109.02               | \$0.88      | \$0.0765             | \$0.2083          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 45                               | 0.0139  |
| 1422 | Helium Storage Facility                   | EA | \$92,166.74            | \$1,233.80  | \$0.0000             | \$181.47          | \$0.0000          | \$24.26              | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0139  |
| 1431 | Ship Operations Building                  | SF | \$194.00               | \$3.47      | \$0.1743             | \$0.3400          | \$0.2512          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 50                               | 0.0125  |
| 1441 | Photo/TV Production Building              | SF | \$182.87               | \$4.07      | \$0.0683             | \$0.3730          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0123  |
| 1442 | Operations Support Lab                    | SF | \$240.43               | \$3.48      | \$0.1606             | \$0.4621          | \$1.23            | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |
| 1443 | Operations Supply Building                | SF | \$109.02               | \$2.44      | \$0.0382             | \$0.1844          | \$1.23            | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0328        | 45                               | 0.0139  |
| 1444 | Miscellaneous Operations Support Building | SF | \$109.02               | \$4.20      | \$0.1223             | \$0.4419          | \$1.23            | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 1445 | Working Animal Support Building           | SF | \$103.74               | \$4.53      | \$0.8111             | \$0.2059          | \$1.58            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 40                               | 0.0150  |
| 1446 | Security Force Building                   | SF | \$256.00               | \$4.57      | \$0.1364             | \$0.3137          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |

**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |              |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|--------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title                                 | UM | Replacement            | Sustainment  | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 1451 | Strategic Missile Launch Facility         | EA | \$4,947,249.02         | \$42,766.46  | \$1,484.27           | \$10,633.78       | \$11,582.16       | \$100.97             | \$0.0000         | \$0.0000          | \$302.91        | 45                               | 0.0134  |
| 1452 | Missile Guidance Facility                 | SF | \$399.53               | \$5.38       | \$0.1606             | \$0.8430          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 45                               | 0.0134  |
| 1453 | Missile Access Shaft                      | EA | \$89,855.45            | \$1,210.13   | \$0.0000             | \$187.59          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 60                               | 0.0100  |
| 1454 | Missile Access Tunnel                     | LF | \$746.69               | \$10.06      | \$0.0000             | \$1.53            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 60                               | 0.0100  |
| 1455 | Missile Shelter                           | SF | \$44.78                | \$0.57       | \$0.0382             | \$0.0767          | \$0.1092          | \$0.0109             | \$0.0000         | \$0.0000          | \$0.0109        | 33                               | 0.0183  |
| 1456 | Missile Defense Facility                  | EA | \$654,388.88           | \$7,294.32   | \$0.0000             | \$1,361.59        | \$351.17          | \$15.27              | \$0.0000         | \$0.0000          | \$0.0000        | 33                               | 0.0183  |
| 1457 | Ballistic Missile Control Facility        | SF | \$399.53               | \$16.86      | \$0.1070             | \$0.8430          | \$0.2512          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 33                               | 0.0183  |
| 1458 | Mechanical Security Barricade             | EA | \$37,220.23            | \$3,207.58   | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 15                               | 0.0406  |
| 1459 | Overhead Cover                            | SF | \$58.48                | \$0.77       | \$0.0000             | \$0.1317          | \$0.0000          | \$0.0000             | \$0.1327         | \$0.0000          | \$0.0000        | 15                               | 0.0403  |
| 1461 | Aircraft Arresting System                 | EA | \$785,789.56           | \$8,044.41   | \$0.0000             | \$1,641.00        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 10                               | 0.0610  |
| 1462 | Aircraft Catapult                         | EA | \$148,567.79           | \$1,520.94   | \$0.0000             | \$310.17          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 10                               | 0.0610  |
| 1463 | Aircraft Firing-In Butt                   | EA | \$460,265.91           | \$31,214.89  | \$0.0000             | \$964.14          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 15                               | 0.0403  |
| 1464 | Aircraft Blast Deflector                  | EA | \$42,789.30            | \$438.05     | \$0.0000             | \$89.33           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 29                               | 0.0206  |
| 1465 | Aircraft Shelter, Hardened                | SF | \$338.31               | \$1.49       | \$0.0382             | \$0.7375          | \$0.1092          | \$0.0109             | \$0.0000         | \$0.0000          | \$0.0109        | 40                               | 0.0149  |
| 1466 | Aircraft Shelter                          | SF | \$137.72               | \$1.01       | \$0.0382             | \$0.2993          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 45                               | 0.0133  |
| 1467 | Aircraft Support Facility                 | EA | \$1,596,358.39         | \$16,342.48  | \$0.0000             | \$3,473.82        | \$921.89          | \$88.42              | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0133  |
| 1481 | Nuclear Propulsion Support Facility       | EA | \$135,646.13           | \$1,512.01   | \$0.0000             | \$283.19          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 30                               | 0.0201  |
| 1491 | Nuclear Weapons Support Facility          | EA | \$139,728.81           | \$1,557.52   | \$0.0000             | \$291.02          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 30                               | 0.0201  |
| 1492 | Explosives Holding/Transfer Area          | SY | \$50.62                | \$1.44       | \$0.0000             | \$0.1078          | \$0.0000          | \$0.0000             | \$0.2798         | \$0.0005          | \$0.0109        | 60                               | 0.0100  |
| 1493 | Explosives Railway Holding Yard           | EA | \$392,126.70           | \$8,071.00   | \$0.0000             | \$816.71          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 60                               | 0.0100  |
| 1494 | Explosives Holding/Transfer Facility      | EA | \$7,611.63             | \$156.67     | \$0.0000             | \$15.83           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 40                               | 0.0150  |
| 1495 | Revetment                                 | EA | \$20,392.23            | \$27.74      | \$0.0000             | \$42.57           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 36                               | 0.0167  |
| 1496 | Central Vehicle Wash Facility             | EA | \$7,790,253.11         | \$122,879.64 | \$0.0000             | \$16,142.78       | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 30                               | 0.0200  |
| 1497 | Explosive Ordnance Disposal Area          | EA | \$0.00                 | \$0.00       | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 1498 | Security Support Facility                 | SF | \$352.37               | \$3.14       | \$0.1300             | \$0.4645          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0109        | 36                               | 0.0167  |
| 1499 | Miscellaneous Operations Support Facility | EA | \$14,556.47            | \$162.26     | \$0.0000             | \$34.14           | \$26.21           | \$2.52               | \$0.0000         | \$0.0000          | \$7.57          | 50                               | 0.0120  |
| 1511 | Pier                                      | SY | \$2,589.65             | \$29.00      | \$0.0000             | \$2.14            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0492          | \$0.0109        | 50                               | 0.0119  |
| 1512 | Wharf                                     | SY | \$2,589.65             | \$29.00      | \$0.0000             | \$2.14            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0492          | \$0.0109        | 50                               | 0.0119  |
| 1513 | Pier/Wharf Access Trestle                 | SY | \$1,024.38             | \$29.00      | \$0.0000             | \$2.14            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0492          | \$0.0109        | 37                               | 0.0161  |

**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title                                   | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 1531 | Marine Cargo Staging Area                   | SY | \$50.62                | \$1.44      | \$0.0000             | \$0.1078          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0005          | \$0.0109        | 37                               | 0.0161  |
| 1541 | Shore Erosion Prevention Facility           | LF | \$532.14               | \$20.28     | \$0.0000             | \$1.09            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 37                               | 0.0161  |
| 1551 | Small Craft Berthing                        | FB | \$2,200.32             | \$24.64     | \$0.0000             | \$4.59            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 37                               | 0.0161  |
| 1552 | Small Craft Building                        | SF | \$30.11                | \$1.49      | \$0.0688             | \$0.0615          | \$0.1092          | \$0.0109             | \$0.0000         | \$0.0000          | \$0.0109        | 37                               | 0.0170  |
| 1591 | Miscellaneous Waterfront Facility           | EA | \$47,899.53            | \$65.16     | \$0.0000             | \$100.00          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 37                               | 0.0161  |
| 1611 | Harbor Control Facility                     | EA | \$476,495.60           | \$648.28    | \$0.0000             | \$994.79          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 37                               | 0.0161  |
| 1631 | Offshore Mooring Facility                   | EA | \$10,143.93            | \$18.09     | \$0.0000             | \$21.18           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 36                               | 0.0166  |
| 1641 | Harbor Marine Improvements                  | LF | \$532.14               | \$11.50     | \$0.0000             | \$1.09            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 36                               | 0.0166  |
| 1711 | General Purpose Instruction Building        | SF | \$230.00               | \$4.49      | \$0.0994             | \$0.3783          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1712 | Applied Instruction Building                | SF | \$275.00               | \$2.92      | \$0.0994             | \$0.3783          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1713 | Band Training Facility                      | SF | \$155.74               | \$4.24      | \$0.0994             | \$0.3089          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1714 | Reserve Training Facility                   | SF | \$181.00               | \$5.62      | \$0.1300             | \$0.3352          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |
| 1715 | Physical Education Building                 | SF | \$203.00               | \$3.26      | \$0.0688             | \$0.3999          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 1717 | Organizational Classroom                    | SF | \$155.74               | \$4.66      | \$0.0994             | \$0.3089          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1718 | Indoor Firing Range and Supporting Facility | SF | \$221.93               | \$3.88      | \$0.0075             | \$0.2730          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0109        | 45                               | 0.0133  |
| 1721 | Flight Simulator Facility                   | SF | \$176.18               | \$4.86      | \$0.1441             | \$0.4813          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1722 | Physiological Training Facility             | SF | \$106.05               | \$2.55      | \$0.0994             | \$0.2487          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1723 | Gas Training Facility                       | SF | \$155.74               | \$2.01      | \$0.0994             | \$0.2658          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0000        | 45                               | 0.0133  |
| 1724 | General Purpose Simulator Facility          | SF | \$176.18               | \$3.36      | \$0.0833             | \$0.3400          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 1725 | Training Pool and Tank                      | EA | \$393,220.73           | \$3,322.73  | \$558.69             | \$820.94          | \$502.45          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 1731 | Range Support Building                      | SF | \$156.39               | \$2.65      | \$0.1300             | \$0.2654          | \$0.2512          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 40                               | 0.0150  |
| 1732 | Training Aids Support Building              | SF | \$155.74               | \$2.10      | \$0.0382             | \$0.2897          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0109        | 40                               | 0.0150  |
| 1733 | Training Support Structure                  | SF | \$79.82                | \$0.26      | \$0.0382             | \$0.1053          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 35                               | 0.0171  |
| 1734 | Observation Tower/Bunker                    | EA | \$146,103.32           | \$511.22    | \$0.0000             | \$346.71          | \$0.0000          | \$8.74               | \$0.0000         | \$0.0000          | \$77.73         | 36                               | 0.0167  |
| 1735 | Offshore Range Support Platform             | EA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 1741 | Maneuver/Training Land, Light Forces        | AC | \$0.00                 | \$0.62      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$4.51           | \$0.0000          | \$0.6150        | N/A                              | N/A   |
| 1742 | Maneuver/Training Land, Heavy Forces        | AC | \$0.00                 | \$0.62      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$4.51           | \$0.0000          | \$0.6150        | N/A                              | N/A   |

**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |                                      |    | Unit costs (\$FY 2010) |              |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|--------------------------------------|----|------------------------|--------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title                            | UM | Replacement            | Sustainment  | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 1743 | Weapons Impact Area                  | AC | \$0.00                 | \$0.62       | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 1744 | Parachute Drop Zone                  | AC | \$0.00                 | \$0.62       | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$241.88         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 1745 | Parade and Drill Field               | AC | \$0.00                 | \$120.46     | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$1,756.02       | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 1750 | GP Small Arms Range                  | FP | \$18,391.99            | \$483.25     | \$0.0000             | \$43.72           | \$0.0000          | \$0.0000             | \$975.41         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1751 | Zero Range                           | FP | \$492.45               | \$17.27      | \$0.0000             | \$1.17            | \$0.0000          | \$0.0000             | \$10.76          | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1752 | Field Fire Range                     | FP | \$18,693.98            | \$456.84     | \$0.0000             | \$44.44           | \$0.0000          | \$0.0000             | \$382.52         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1753 | Record Fire Range                    | FP | \$31,242.57            | \$624.93     | \$0.0000             | \$74.26           | \$0.0000          | \$0.0000             | \$382.52         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1754 | Night Fire Range                     | FP | \$3,444.37             | \$68.53      | \$0.0000             | \$8.19            | \$0.0000          | \$0.0000             | \$50.79          | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1755 | Known Distance Range                 | FP | \$9,224.73             | \$184.52     | \$0.0000             | \$21.93           | \$0.0000          | \$0.0000             | \$167.47         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1756 | Sniper Range                         | FP | \$121,561.21           | \$1,130.71   | \$0.0000             | \$288.95          | \$0.0000          | \$0.0000             | \$1,243.02       | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1757 | Pistol Range                         | FP | \$3,047.31             | \$206.24     | \$0.0000             | \$7.24            | \$0.0000          | \$0.0000             | \$26.21          | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1758 | Machinegun Range                     | FP | \$52,201.61            | \$399.98     | \$0.0000             | \$124.08          | \$0.0000          | \$0.0000             | \$609.50         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1760 | General Purpose Direct<br>Fire Range | FP | \$0.00                 | \$0.00       | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$1,218.99       | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 1761 | Grenade Launcher Range               | FP | \$28,314.06            | \$340.73     | \$0.0000             | \$67.30           | \$0.0000          | \$0.0000             | \$663.02         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1762 | Grenade Machinegun<br>Range          | LN | \$259.30               | \$26.48      | \$0.0000             | \$0.6164          | \$0.0000          | \$0.0000             | \$25,452.22      | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1763 | Light Antiarmor Weapon<br>Range      | FP | \$509,748.08           | \$2,299.33   | \$0.0000             | \$1,211.66        | \$0.0000          | \$0.0000             | \$310.76         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1764 | Heavy Antiarmor Weapon<br>Range      | LN | \$2,648,758.17         | \$13,051.80  | \$0.0000             | \$6,296.01        | \$0.0000          | \$0.0000             | \$20,824.54      | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1765 | Artillery Direct Fire Range          | EA | \$1,124,055.94         | \$8,420.12   | \$0.0000             | \$2,671.85        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1766 | Tank Stationary Gunnery<br>Range     | EA | \$6,435,609.56         | \$41,684.43  | \$0.0000             | \$15,297.24       | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1767 | Indirect Fire Range                  | EA | \$0.00                 | \$0.00       | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 1768 | Scaled Indirect Fire Range           | EA | \$10,018.70            | \$201.90     | \$0.0000             | \$23.81           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1769 | Scaled Gunnery Range                 | EA | \$42,469.92            | \$1,037.43   | \$0.0000             | \$100.95          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1771 | Armor Vehicle Crew<br>Training Range | LN | \$3,758,957.20         | \$47,265.22  | \$0.0000             | \$7,829.09        | \$0.0000          | \$0.0000             | \$13,938.11      | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1772 | Armor Vehicle Unit<br>Training Range | EA | \$5,463,122.57         | \$100,774.48 | \$0.0000             | \$11,520.03       | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1773 | Fire and Movement Range              | LN | \$130,533.02           | \$2,301.63   | \$0.0000             | \$275.25          | \$0.0000          | \$0.0000             | \$3,687.68       | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1774 | Squad Defense Range                  | EA | \$212,953.27           | \$4,257.36   | \$0.0000             | \$449.05          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1775 | Infantry Battle Course               | EA | \$1,119,843.20         | \$22,038.74  | \$0.0000             | \$2,361.40        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1776 | Urban Combat Training<br>Range       | EA | \$454,241.38           | \$9,812.59   | \$0.0000             | \$957.85          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1781 | Live Hand Grenade Range              | FP | \$22,865.10            | \$771.40     | \$0.0000             | \$48.22           | \$0.0000          | \$0.0000             | \$119.06         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1782 | Engineer Qualification<br>Range      | FP | \$320,898.65           | \$16,238.45  | \$0.0000             | \$667.53          | \$0.0000          | \$0.0000             | \$45,423.79      | \$0.0000          | \$0.0000        | 25                               | 0.0242  |

**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title   | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 1783 | Light Demolition and<br>Flame Training Range        | FP | \$2,156,543.96         | \$10,352.21 | \$0.0000             | \$4,547.48        | \$0.0000          | \$0.0000             | \$18,826.64      | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1790 | Miscellaneous Training<br>Fac                       | EA | \$88,729.07            | \$2,609.64  | \$0.0000             | \$184.20          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1791 | Aircraft Weapons<br>Calibration Range               | EA | \$36,190.73            | \$2,681.56  | \$0.0000             | \$75.28           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1792 | Attack Helicopter<br>Weapons Range                  | EA | \$1,327,910.42         | \$50,384.52 | \$0.0000             | \$2,772.31        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1793 | Aircraft Weapons Range                              | EA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 1794 | Air Defense Range                                   | FP | \$156,873.70           | \$8,568.98  | \$0.0000             | \$330.80          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1795 | Fire And Rescue Training<br>Facility                | EA | \$1,995,946.97         | \$40,083.64 | \$0.0000             | \$4,788.78        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1796 | Urban Combat Training<br>Area, Non-Fire             | SF | \$32.52                | \$0.10      | \$0.0000             | \$0.0686          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1797 | Hand Grenade Range,<br>Non-Firing                   | FP | \$4,148.58             | \$80.66     | \$0.0000             | \$8.75            | \$0.0000          | \$0.0000             | \$74.71          | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1798 | Infiltration Course, Live<br>Fire                   | EA | \$93,007.26            | \$2,271.93  | \$0.0000             | \$193.03          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 1799 | Confidence/Obstacle<br>Course                       | EA | \$45,353.23            | \$1,107.86  | \$0.0000             | \$94.15           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0242  |
| 2111 | Aircraft Maintenance<br>Hangar                      | SF | \$239.00               | \$2.37      | \$0.0382             | \$0.4789          | \$0.1092          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 40                               | 0.0157  |
| 2112 | Aircraft Maintenance Shop                           | SF | \$227.00               | \$2.99      | \$0.0874             | \$0.3783          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 40                               | 0.0157  |
| 2113 | Aircraft Corrosion Control<br>Hangar                | SF | \$323.17               | \$1.96      | \$0.0382             | \$0.6473          | \$0.9831          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 40                               | 0.0157  |
| 2114 | Aircraft Engine Test<br>Building                    | SF | \$182.03               | \$2.92      | \$0.1223             | \$0.3495          | \$0.1092          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2115 | Aircraft Maintenance<br>Hangar, Depot               | SF | \$263.79               | \$1.49      | \$0.0874             | \$0.4789          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 40                               | 0.0157  |
| 2116 | Aircraft Maintenance<br>Shop, Depot                 | SF | \$238.48               | \$2.26      | \$0.0874             | \$0.3783          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 40                               | 0.0157  |
| 2118 | Aircraft Engine Test<br>Facility                    | EA | \$2,366,325.51         | \$19,656.75 | \$0.0000             | \$4,544.55        | \$12,779.74       | \$142.00             | \$0.0000         | \$0.0000          | \$425.99        | 50                               | 0.0119  |
| 2121 | Missile Maintenance/<br>Assembly Building           | SF | \$202.47               | \$2.74      | \$0.1223             | \$0.6074          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 31                               | 0.0203  |
| 2123 | Missile/ Launcher Maint.<br>Support Facility        | SF | \$202.47               | \$2.63      | \$0.1223             | \$0.4072          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 31                               | 0.0203  |
| 2124 | Missile Test Tower                                  | EA | \$246,088.39           | \$4,891.52  | \$0.0000             | \$607.96          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 30                               | 0.0201  |
| 2125 | Missile Maintenance/<br>Assembly Building,<br>Depot | SF | \$202.47               | \$2.32      | \$0.0874             | \$0.6074          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 31                               | 0.0203  |

**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |  |    | Unit costs (\$FY 2010) |              |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|--|----|------------------------|--------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title  | UM | Replacement            | Sustainment  | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 2126 | Intercontinental Ballistic<br>Missile Processing<br>Facility | SF | \$433.56               | \$16.88      | \$0.1223             | \$0.9598          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 31                               | 0.0203  |
| 2131 | Ship Maintenance Dry-<br>dock                                | SF | \$651.92               | \$26.25      | \$0.1223             | \$1.36            | \$0.0000          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2132 | Marine Railway   | EA | \$11,305.65            | \$451.00     | \$0.0000             | \$23.52           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 37                               | 0.0167  |
| 2133 | Marine Maintenance Shop                                      | SF | \$158.66               | \$1.67       | \$0.0874             | \$0.2874          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2134 | Marine Maintenance<br>Support Facility                       | SF | \$109.75               | \$2.14       | \$0.1223             | \$0.2488          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2135 | Landing Craft Wash<br>Facility                               | EA | \$7,790,253.11         | \$122,879.64 | \$0.0000             | \$16,142.78       | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 37                               | 0.0170  |
| 2136 | Nuclear Repair Shop  | SF | \$202.47               | \$2.50       | \$0.0874             | \$0.3903          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2137 | Fixed Crane Structure  | EA | \$4,682,357.28         | \$95,016.37  | \$0.0000             | \$9,775.45        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 6                                | 0.1037  |
| 2141 | Vehicle Maintenance Shop                                     | SF | \$210.25               | \$3.31       | \$0.0874             | \$0.3640          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2142 | Vehicle Maintenance<br>Shop, Depot                           | SF | \$198.00               | \$1.95       | \$0.0874             | \$0.3640          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2143 | Vehicle Maintenance<br>Shop, National Guard                  | SF | \$210.25               | \$3.72       | \$0.0874             | \$0.3519          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2144 | Vehicle Maintenance<br>Shop, Reserve                         | SF | \$210.25               | \$3.69       | \$0.0874             | \$0.3519          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2145 | Vehicle Maintenance<br>Facility                              | EA | \$71,296.38            | \$1,637.81   | \$0.0000             | \$147.33          | \$177.61          | \$17.76              | \$0.0000         | \$0.0000          | \$53.28         | 50                               | 0.0119  |
| 2146 | Launch Vehicle Test<br>Facility                              | EA | \$15,909,820.99        | \$177,343.04 | \$0.0000             | \$35,219.54       | \$0.0000          | \$944.70             | \$0.0000         | \$0.0000          | \$2,834.09      | 50                               | 0.0119  |
| 2151 | Weapon Maintenance<br>Shop                                   | SF | \$158.66               | \$2.51       | \$0.0874             | \$0.2874          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2152 | Weapon Maintenance<br>Shop, Depot                            | SF | \$141.73               | \$2.29       | \$0.0874             | \$0.3158          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2153 | Special Weapon<br>Maintenance Shop                           | SF | \$202.47               | \$2.59       | \$0.0874             | \$0.4845          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2154 | Weapon Maintenance<br>Facility, Depot                        | SF | \$165.48               | \$3.39       | \$0.0874             | \$0.3158          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2161 | Ammunition Maint Shop  | SF | \$165.48               | \$2.85       | \$0.0874             | \$0.3208          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2162 | Ammunition Maint Shop,<br>Depot                              | SF | \$165.48               | \$3.07       | \$0.0874             | \$0.3208          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2163 | Ammunition Maint Facility,<br>Depot                          | SF | \$165.48               | \$4.15       | \$0.0874             | \$0.3208          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2171 | Electronic and<br>Communication Maint<br>Shop                | SF | \$183.00               | \$2.58       | \$0.0874             | \$0.3591          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2172 | Electronic and<br>Communication Maint<br>Shop, Depot         | SF | \$183.00               | \$1.91       | \$0.0874             | \$0.3591          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |

**UFC 3-701-01**  
**June 2010**

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title   | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 2173 | Electronic and<br>Communication Maint<br>Facility   | EA | \$936,893.58           | \$9,850.46  | \$480.61             | \$1,975.37        | \$0.0000          | \$60.08              | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0125  |
| 2181 | Installation Support<br>Vehicle Maint Shop          | SF | \$160.00               | \$2.93      | \$0.0874             | \$0.3519          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2182 | Installation Support<br>Equipment Maint Shop        | SF | \$160.00               | \$2.53      | \$0.0874             | \$0.2874          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2183 | Railroad Equipment Shop                             | SF | \$171.82               | \$3.07      | \$0.0874             | \$0.3691          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2184 | Parachute And Dingy<br>Maintenance Shop             | SF | \$212.00               | \$4.22      | \$0.0874             | \$0.3903          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2191 | Facility Engineer<br>Maintenance Shop               | SF | \$160.00               | \$3.37      | \$0.0874             | \$0.2730          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2192 | Facility Engineer<br>Maintenance Facility           | EA | \$1,196,237.52         | \$30,021.90 | \$0.0000             | \$2,820.59        | \$0.0000          | \$338.61             | \$0.0000         | \$0.0000          | \$1,015.83      | 50                               | 0.0119  |
| 2211 | Aircraft Production Plant                           | SF | \$134.76               | \$1.70      | \$0.0765             | \$0.3788          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2221 | Missile Production Plant                            | SF | \$134.76               | \$2.28      | \$0.0765             | \$0.4651          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2231 | Ship Production Plant                               | SF | \$134.76               | \$2.20      | \$0.0765             | \$0.2493          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2233 | Ship Building Dry-dock                              | SF | \$654.12               | \$19.13     | \$0.0765             | \$1.36            | \$0.0000          | \$0.1857             | \$0.0000         | \$0.0000          | \$0.0109        | 50                               | 0.0125  |
| 2241 | Tank/Automotive<br>Production Plant                 | SF | \$134.76               | \$1.89      | \$0.0765             | \$0.2387          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2242 | Tank/Automotive<br>Production Facility              | SF | \$134.76               | \$1.89      | \$0.0765             | \$0.2387          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2251 | Weapon Production Plant                             | SF | \$134.76               | \$1.80      | \$0.0765             | \$0.2387          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2252 | Weapon Production<br>Facility                       | SF | \$134.76               | \$1.80      | \$0.0765             | \$0.2387          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2261 | Ammunition Production<br>Plant                      | SF | \$202.26               | \$3.50      | \$0.0765             | \$0.3678          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2262 | Ammunition Production<br>Facility                   | SF | \$134.76               | \$2.43      | \$0.0765             | \$0.3678          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 2264 | Ammunition<br>Demilitarization Plant                | SF | \$1,035.69             | \$10.27     | \$0.0765             | \$2.13            | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2265 | Ammunition<br>Demilitarization Facility             | EA | \$3,212,720.53         | \$54,516.75 | \$0.0000             | \$6,602.98        | \$0.0000          | \$33.88              | \$0.0000         | \$0.0000          | \$101.65        | 55                               | 0.0109  |
| 2271 | Electronic and<br>Communication<br>Production Plant | SF | \$183.00               | \$1.86      | \$0.0765             | \$0.3908          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2281 | Miscellaneous Support<br>Production Plant           | SF | \$158.66               | \$3.18      | \$0.0765             | \$0.3903          | \$0.9831          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0114  |
| 2291 | Construction Material<br>Production Plant           | EA | \$1,614,104.58         | \$27,929.16 | \$480.55             | \$3,573.14        | \$0.0000          | \$1,167.05           | \$0.0000         | \$0.0000          | \$205.95        | 55                               | 0.0114  |
| 3101 | RDT&E Laboratory                                    | SF | \$240.43               | \$2.40      | \$0.1606             | \$0.4621          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 30                               | 0.0109  |



**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |                |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|----------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title                                       | UM | Replacement            | Sustainment    | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 3102 | Medical Research Laboratory                     | SF | \$278.36               | \$5.54         | \$0.1606             | \$0.6268          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 30                               | 0.0109  |
| 3103 | Biosafety Level 3 Laboratory                    | SF | \$268.40               | \$10.25        | \$0.1604             | \$0.63            | \$0.9822          | \$0.0873             | \$0.0077         | \$0.0000          | \$0.0109        | 20                               | 0.0109  |
| 3104 | Biosafety Level 4 Laboratory                    | SF | \$268.40               | \$15.24        | \$0.1604             | \$0.63            | \$0.9822          | \$0.0873             | \$0.0077         | \$0.0000          | \$0.0109        | 20                               | 0.0109  |
| 3111 | Aircraft RDT&E Facility                         | SF | \$223.39               | \$2.32         | \$0.1606             | \$0.4621          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3121 | Missile and Space RDT&E Facility                | SF | \$228.50               | \$2.86         | \$0.1606             | \$0.6441          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3131 | Ship and Marine RDT&E Facility                  | SF | \$240.43               | \$2.20         | \$0.1606             | \$0.3316          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3141 | Tank and Automotive RDT&E Facility              | SF | \$240.43               | \$2.36         | \$0.1606             | \$0.3605          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3151 | Weapons RDT&E Facility                          | SF | \$240.43               | \$3.00         | \$0.1606             | \$0.6441          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3161 | Ammunition, Explosive, and Toxic RDT&E Facility | SF | \$240.43               | \$3.39         | \$0.1606             | \$0.4621          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3171 | Electronic and Communication RDT&E Facility     | SF | \$240.43               | \$2.35         | \$0.1606             | \$0.4621          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3181 | Propulsion RDT&E Facility                       | SF | \$240.43               | \$2.73         | \$0.1606             | \$0.4621          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3191 | Miscellaneous Item and Equipment RDT&E Facility | SF | \$240.43               | \$2.98         | \$0.1606             | \$0.3605          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3201 | Underwater Equipment RDT&E Facility             | SF | \$240.43               | \$2.75         | \$0.1606             | \$0.4452          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3211 | RDT&E Technical Service Facility                | SF | \$240.43               | \$2.37         | \$0.1606             | \$0.3089          | \$0.9831          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 3711 | RDT&E Range Building                            | SF | \$160.61               | \$2.25         | \$0.1606             | \$0.2658          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0109        | 40                               | 0.0150  |
| 3712 | RDT&E Range Facility                            | EA | \$223,546.06           | \$1,674.55     | \$0.0000             | \$531.55          | \$0.0000          | \$20.40              | \$0.0000         | \$0.0000          | \$61.21         | 40                               | 0.0150  |
| 3713 | RDT&E Range Complex                             | EA | \$651,922.86           | \$7,266.83     | \$0.0000             | \$1,361.03        | \$0.0000          | \$52.23              | \$0.0000         | \$0.0000          | \$156.70        | 36                               | 0.0166  |
| 3901 | Miscellaneous RDT&E Facility                    | EA | \$223,546.06           | \$4,359.61     | \$0.0000             | \$531.55          | \$0.0000          | \$20.40              | \$0.0000         | \$0.0000          | \$61.21         | 40                               | 0.0150  |
| 3902 | RDT&E Area                                      | AC | \$0.00                 | \$0.00         | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$2.18           | \$0.0000          | \$0.6150        | N/A                              | N/A   |
| 3903 | Aerodynamic wind tunnel                         | EA | \$618,854,259.42       | \$6,898,223.42 | \$16,068.32          | \$1,287,646.10    | \$120,718.17      | \$1,052.40           | \$0.0000         | \$0.0000          | \$3,157.19      | 55                               | 0.0109  |
| 3904 | Propulsion engine test cell                     | EA | \$47,445,211.10        | \$485,713.43   | \$0.0000             | \$98,718.95       | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 55                               | 0.0109  |
| 4111 | Bulk Liquid Fuel Storage                        | BL | \$59.92                | \$4.75         | \$0.0000             | \$0.1269          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 30                               | 0.0206  |
| 4121 | Bulk Liquid Storage, Other Than Fuel            | GA | \$2.16                 | \$0.09         | \$0.0000             | \$0.0042          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 28                               | 0.0221  |



**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |  |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|--|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title  | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 4122 | Liquid Oxygen Storage                                  | SF | \$47.78                | \$0.87      | \$0.0000             | \$0.1100          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 24                               | 0.0258  |
| 4211 | Ammunition Storage,<br>Depot and Arsenal               | SF | \$245.00               | \$2.19      | \$0.0000             | \$0.5076          | \$0.1092          | \$0.0109             | \$0.0794         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 4212 | Intercontinental Ballistic<br>Missile Storage Facility | SF | \$390.94               | \$7.32      | \$0.0000             | \$0.8023          | \$0.1092          | \$0.0109             | \$0.0794         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 4221 | Ammunition Storage,<br>Installation                    | SF | \$256.00               | \$2.54      | \$0.0000             | \$0.5076          | \$0.1092          | \$0.0109             | \$0.0794         | \$0.0000          | \$0.0109        | 55                               | 0.0109  |
| 4231 | Liquid Propellant Storage,<br>Ammunition Related       | GA | \$1.28                 | \$0.09      | \$0.0000             | \$0.0029          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 46                               | 0.0134  |
| 4241 | Battery Storage, Weapon<br>Related                     | SF | \$171.32               | \$4.52      | \$0.0000             | \$0.3903          | \$0.1092          | \$0.0109             | \$0.0794         | \$0.0000          | \$0.0109        | 45                               | 0.0134  |
| 4251 | Open Ammunition Storage                                | SY | \$44.91                | \$1.44      | \$0.0000             | \$0.1096          | \$0.0000          | \$0.0000             | \$0.7146         | \$0.0005          | \$0.0109        | 60                               | 0.0100  |
| 4311 | Cold Storage, Depot                                    | SF | \$171.32               | \$2.30      | \$0.0382             | \$0.3903          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 45                               | 0.0132  |
| 4321 | Cold Storage, Installation                             | SF | \$235.56               | \$2.77      | \$0.0382             | \$0.3903          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 45                               | 0.0132  |
| 4411 | Covered Storage Building,<br>Depot                     | SF | \$133.00               | \$1.36      | \$0.0000             | \$0.2083          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 45                               | 0.0132  |
| 4412 | Covered Storage Shed,<br>Depot                         | SF | \$72.03                | \$0.86      | \$0.0000             | \$0.0779          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 36                               | 0.0165  |
| 4413 | Hazardous Materials<br>Storage, Depot                  | SF | \$149.90               | \$2.91      | \$0.0000             | \$0.2995          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 45                               | 0.0132  |
| 4414 | Controlled Humidity<br>Storage, Depot                  | SF | \$115.83               | \$1.48      | \$0.0000             | \$0.1940          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 45                               | 0.0132  |
| 4421 | Covered Storage Building,<br>Installation              | SF | \$106.00               | \$2.17      | \$0.0000             | \$0.1844          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 45                               | 0.0132  |
| 4422 | Covered Storage Shed,<br>Installation                  | SF | \$33.00                | \$0.87      | \$0.0000             | \$0.0779          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 36                               | 0.0165  |
| 4423 | Hazardous Materials<br>Storage, Installation           | SF | \$149.90               | \$5.16      | \$0.0382             | \$0.2995          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 45                               | 0.0132  |
| 4424 | Controlled Humidity<br>Storage, Installation           | SF | \$115.83               | \$1.41      | \$0.0382             | \$0.1940          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 45                               | 0.0132  |
| 4425 | Vehicle Storage, Covered                               | SF | \$62.30                | \$0.63      | \$0.0000             | \$0.1510          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 40                               | 0.0148  |
| 4426 | Storage Silo, Loose<br>Material                        | SF | \$26.84                | \$0.86      | \$0.0000             | \$0.0433          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 36                               | 0.0165  |
| 4427 | Small Arms Storage,<br>Installation                    | SF | \$244.32               | \$2.69      | \$0.0000             | \$0.5076          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0109        | 55                               | 0.0108  |
| 4511 | Open Storage, Depot                                    | SY | \$44.91                | \$0.17      | \$0.0000             | \$0.1078          | \$0.0000          | \$0.0000             | \$0.0500         | \$0.0005          | \$0.0109        | 75                               | 0.0080  |
| 4521 | Open Storage, Installation                             | SY | \$44.91                | \$0.17      | \$0.0000             | \$0.1078          | \$0.0000          | \$0.0000             | \$0.0500         | \$0.0005          | \$0.0109        | 75                               | 0.0080  |
| 5100 | Hospital   | SF | \$440.00               | \$5.95      | \$0.1759             | \$0.5220          | \$1.58            | \$0.1202             | \$0.1328         | \$0.0000          | \$0.0328        | 30                               | 0.0287  |
| 5101 | Medical Center   | SF | \$440.00               | \$5.95      | \$0.1759             | \$0.5938          | \$1.58            | \$0.1202             | \$0.1328         | \$0.0000          | \$0.0328        | 30                               | 0.0287  |

**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title   | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 5302 | Medical Laboratory                                | SF | \$240.43               | \$7.70      | \$0.1759             | \$0.4621          | \$1.58            | \$0.1202             | \$0.1328         | \$0.0000          | \$0.0328        | 30                               | 0.0309  |
| 5303 | Morgue  | SF | \$213.56               | \$3.89      | \$0.1759             | \$0.4694          | \$1.58            | \$0.1202             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 5304 | Veterinary Facility                               | SF | \$213.56               | \$3.18      | \$0.1759             | \$0.4694          | \$1.58            | \$0.1202             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 5306 | Medical Warehouse                                 | SF | \$117.78               | \$1.25      | \$0.0382             | \$0.1940          | \$0.9831          | \$0.0109             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0132  |
| 5307 | Ambulance Shelter                                 | SF | \$83.71                | \$0.65      | \$0.0688             | \$0.1632          | \$0.1092          | \$0.0109             | \$0.1328         | \$0.0000          | \$0.0328        | 35                               | 0.0170  |
| 5400 | Dental Facility                                   | SF | \$402.00               | \$9.66      | \$0.1759             | \$0.5196          | \$1.58            | \$0.1202             | \$0.1328         | \$0.0000          | \$0.0328        | 30                               | 0.0287  |
| 5500 | Dispensary And Clinic                             | SF | \$358.21               | \$7.03      | \$0.1759             | \$0.4694          | \$1.58            | \$0.1202             | \$0.1328         | \$0.0000          | \$0.0328        | 30                               | 0.0287  |
| 5501 | Ambulatory Care Clinic                            | SF | \$431.21               | \$5.19      | \$0.1759             | \$0.4429          | \$1.58            | \$0.1202             | \$0.1328         | \$0.0000          | \$0.0328        | 30                               | 0.0287  |
| 6100 | General Administrative<br>Building                | SF | \$212.00               | \$2.87      | \$0.1300             | \$0.3400          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0108  |
| 6101 | Small Unit Headquarters<br>Building               | SF | \$183.97               | \$3.36      | \$0.1300             | \$0.3664          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0108  |
| 6102 | Large Unit Headquarters<br>Building               | SF | \$240.00               | \$4.07      | \$0.1300             | \$0.3831          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0108  |
| 6103 | Printing And Reproduction<br>Plant                | SF | \$88.10                | \$3.10      | \$0.0765             | \$0.1922          | \$0.9831          | \$0.1857             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0132  |
| 6104 | Automated Data<br>Processing Center               | SF | \$275.00               | \$2.87      | \$0.4245             | \$0.4453          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0132  |
| 6105 | Pentagon  | SF | \$545.41               | \$6.55      | \$0.4241             | \$0.3397          | \$1.23            | \$0.0873             | \$0.1327         | \$0.0000          | \$0.0327        | 55                               | 0.0108  |
| 6106 | Remote Delivery Facility                          | SF | \$151.63               | \$9.31      | \$0.0873             | \$0.2727          | \$0.1091          | \$0.0873             | \$0.0077         | \$0.0000          | \$0.0109        | 55                               | 0.0108  |
| 6200 | Administrative Structure,<br>Underground          | SF | \$228.75               | \$2.21      | \$0.1300             | \$0.4310          | \$1.23            | \$0.0874             | \$0.0000         | \$0.0000          | \$0.0328        | 45                               | 0.0132  |
| 6201 | Alternate Joint<br>Communications Center          | SF | \$239.95               | \$2.77      | \$0.4241             | \$0.4449          | \$1.23            | \$0.0873             | \$0.1327         | \$0.0000          | \$0.0327        | 55                               | 0.0108  |
| 6900 | Administrative Structure,<br>Other Than Buildings | EA | \$6,751.93             | \$163.61    | \$0.0000             | \$15.75           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 26                               | 0.0231  |
| 7110 | Family Housing Dwelling                           | SF | \$147.00               | \$2.10      | \$0.1420             | \$0.1724          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 60                               | 0.0100  |
| 7120 | Family Housing<br>Trailer/Relocatable             | FA | \$43,777.99            | \$890.16    | \$0.0000             | \$99.09           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 20                               | 0.0303  |
| 7130 | Family Housing Trailer<br>Site                    | FA | \$6,606.89             | \$397.60    | \$0.0000             | \$15.52           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 20                               | 0.0303  |
| 7141 | Family Housing<br>Garage/Carport                  | SF | \$53.86                | \$1.02      | \$0.0000             | \$0.0769          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 35                               | 0.0172  |
| 7142 | Family Housing Storage<br>Facility                | SF | \$21.10                | \$0.93      | \$0.0000             | \$0.0862          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 30                               | 0.0201  |
| 7143 | Miscellaneous Family<br>Housing Support Facility  | SF | \$53.86                | \$2.30      | \$0.0688             | \$0.3400          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |
| 7145 | Trailer Court Support<br>Facility                 | SF | \$108.14               | \$1.40      | \$0.0688             | \$0.2214          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |

**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |  |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|--|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title                                      | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 7146 | Family Housing Attendant Facility              | SF | \$83.43                | \$4.74      | \$0.1759             | \$0.1802          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 40                               | 0.0150  |
| 7210 | Enlisted Unaccomp Personnel Housing            | SF | \$211.00               | \$3.45      | \$0.1759             | \$0.3664          | \$0.0000          | \$0.0000             | \$0.1328         | \$0.0000          | \$0.0000        | 55                               | 0.0109  |
| 7212 | Enlisted Unaccomp Personnel Housing, Transient | SF | \$226.80               | \$5.10      | \$0.1759             | \$0.3664          | \$0.0000          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0000        | 55                               | 0.0109  |
| 7213 | Student Barracks                               | SF | \$181.05               | \$4.33      | \$0.1724             | \$0.3664          | \$0.0000          | \$0.1202             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |
| 7214 | Annual Training/Mobilization Barracks          | SF | \$190.79               | \$3.06      | \$0.0575             | \$0.3256          | \$0.0000          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 41                               | 0.0147  |
| 7215 | Unaccompanied Housing for Wounded Warriors     | SF | \$379.15               | \$3.70      | \$0.1757             | \$0.4425          | \$1.58            | \$0.1200             | \$0.1327         | \$0.0000          | \$0.0327        | 55                               | 0.0109  |
| 7218 | Recruit/Trainee Barracks                       | SF | \$181.05               | \$4.72      | \$0.1724             | \$0.3256          | \$0.0000          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |
| 7220 | Dining Facility                                | SF | \$312.00               | \$4.75      | \$3.10               | \$0.5938          | \$1.58            | \$1.66               | \$0.1328         | \$0.0000          | \$0.0590        | 40                               | 0.0150  |
| 7231 | Miscellaneous UPH Support Building             | SF | \$44.17                | \$2.30      | \$7.08               | \$0.1226          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0134  |
| 7232 | Unaccomp Personnel Housing Garage/Carport      | SF | \$53.86                | \$1.02      | \$0.0000             | \$0.0674          | \$0.0000          | \$0.0000             | \$0.1328         | \$0.0000          | \$0.0000        | 35                               | 0.0172  |
| 7233 | Dining Support Facility                        | SF | \$171.32               | \$5.21      | \$0.0382             | \$0.4213          | \$0.1092          | \$0.0109             | \$0.1328         | \$0.0000          | \$0.0328        | 40                               | 0.0150  |
| 7234 | Latrine/Shower Facility                        | SF | \$155.74               | \$4.58      | \$5.40               | \$0.4190          | \$1.58            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 40                               | 0.0150  |
| 7235 | Miscellaneous UPH Support Facility             | EA | \$3,967.10             | \$96.12     | \$0.0000             | \$8.77            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 35                               | 0.0172  |
| 7240 | Officer Unaccompanied Personnel Housing        | SF | \$204.00               | \$5.15      | \$0.1759             | \$0.3591          | \$0.0000          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0000        | 55                               | 0.0109  |
| 7241 | Officer UPH, Transient                         | SF | \$180.08               | \$5.15      | \$0.1759             | \$0.3591          | \$0.0000          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0000        | 55                               | 0.0109  |
| 7242 | Service Academy Unaccomp Pers Housing          | SF | \$224.85               | \$5.15      | \$0.1759             | \$0.3591          | \$0.0000          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0000        | N/A                              | 0.0109  |
| 7250 | Emergency Unaccomp Personnel Housing           | SF | \$109.02               | \$1.18      | \$0.1759             | \$0.0761          | \$0.0000          | \$0.0000             | \$0.1328         | \$0.0000          | \$0.0000        | 41                               | 0.0147  |
| 7251 | EUPH Tent Pad                                  | SF | \$5.02                 | \$0.16      | \$0.0000             | \$0.0118          | \$0.0000          | \$0.0000             | \$0.1328         | \$0.0000          | \$0.0000        | 41                               | 0.0147  |
| 7311 | Fire Station Facility                          | SF | \$239.00               | \$3.51      | \$0.0688             | \$0.4118          | \$0.0000          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7312 | Prison/Confinement Facility                    | SF | \$232.25               | \$4.93      | \$0.1759             | \$0.5096          | \$1.58            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7313 | Police Station                                 | SF | \$256.00               | \$5.37      | \$0.1300             | \$0.3519          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 7314 | Drug and Alcohol Abuse Center                  | SF | \$271.58               | \$3.56      | \$0.0994             | \$0.3519          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |
| 7321 | Bread/Pastry Kitchen                           | SF | \$235.40               | \$3.40      | \$1.95               | \$0.4905          | \$1.58            | \$1.66               | \$0.1328         | \$0.0000          | \$0.0590        | 45                               | 0.0134  |
| 7322 | Ice/Dairy Products Plant                       | SF | \$171.32               | \$5.44      | \$0.0765             | \$0.2921          | \$0.9831          | \$0.1857             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0134  |
| 7323 | Greenhouse                                     | SF | \$43.76                | \$1.19      | \$0.1759             | \$0.0964          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 35                               | 0.0172  |

**UFC 3-701-01**  
**June 2010**

(not to be used for military  
construction projects)

|      |                                   |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|-----------------------------------|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title                         | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 7331 | Exchange Eating Facility          | SF | \$206.36               | \$5.60      | \$3.10               | \$0.3975          | \$1.58            | \$1.66               | \$0.1328         | \$0.0000          | \$0.0590        | 35                               | 0.0172  |
| 7332 | Non-Exchange Eating Facility      | SF | \$206.36               | \$3.56      | \$3.10               | \$0.5938          | \$1.58            | \$1.66               | \$0.1328         | \$0.0000          | \$0.0590        | 35                               | 0.0172  |
| 7333 | Open Mess and Club Facility       | SF | \$324.14               | \$5.48      | \$0.5079             | \$0.5531          | \$1.58            | \$1.66               | \$0.1328         | \$0.0000          | \$0.0590        | 45                               | 0.0134  |
| 7340 | Thrift Shop                       | SF | \$144.06               | \$3.33      | \$0.0688             | \$0.2658          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 38                               | 0.0158  |
| 7341 | Bus Station                       | SF | \$128.06               | \$2.81      | \$0.0688             | \$0.2496          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0109        | 50                               | 0.0120  |
| 7342 | Laundry/Dry Cleaning Facility     | SF | \$161.58               | \$3.83      | \$7.08               | \$0.3927          | \$0.9831          | \$0.1857             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0139  |
| 7343 | Clothing Sales Store              | SF | \$161.58               | \$2.72      | \$0.0688             | \$0.2658          | \$0.9831          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 7344 | Postal Facility                   | SF | \$120.44               | \$3.50      | \$0.1223             | \$0.2488          | \$0.9831          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 7345 | Exchange Automobile Facility      | SF | \$125.50               | \$3.35      | \$0.0688             | \$0.2493          | \$0.9831          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0109        | 40                               | 0.0150  |
| 7346 | Exchange Sales Facility           | SF | \$161.58               | \$3.02      | \$0.0688             | \$0.2658          | \$0.9831          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 7347 | Bank and Credit Union             | SF | \$163.53               | \$3.45      | \$0.1300             | \$0.3161          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |
| 7348 | Car Wash Facility                 | SF | \$235.26               | \$3.35      | \$1.32               | \$0.5232          | \$0.0000          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0000        | 30                               | 0.0201  |
| 7349 | Commissary                        | SF | \$203.00               | \$1.95      | \$0.0655             | \$0.3304          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 40                               | 0.0150  |
| 7351 | Education Center                  | SF | \$215.00               | \$3.40      | \$0.0994             | \$0.4071          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 7352 | Dependent School                  | SF | \$210.00               | \$3.47      | \$0.0994             | \$0.3480          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7353 | Dependent School Support Facility | SF | \$191.72               | \$4.92      | \$0.0382             | \$0.3527          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7361 | Chapel Facility                   | SF | \$270.00               | \$3.09      | \$0.0994             | \$0.4166          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 7362 | Religious Education Facility      | SF | \$261.84               | \$3.67      | \$0.0994             | \$0.3400          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 7371 | Nursery and Child Care Facility   | SF | \$222.00               | \$2.44      | \$0.0994             | \$0.4047          | \$1.58            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7372 | Family Service Center             | SF | \$209.00               | \$3.65      | \$0.0994             | \$0.3831          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0120  |
| 7380 | Homeless Support Facility         | SF | \$0.00                 | \$0.00      | \$0.1759             | \$0.0000          | \$1.58            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | N/A                              | N/A   |
| 7381 | Forestry Guard Station            | SF | \$352.37               | \$0.93      | \$0.0000             | \$0.4645          | \$0.0000          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0000        | 36                               | 0.0167  |
| 7382 | Locker Room                       | SF | \$114.83               | \$3.23      | \$0.1759             | \$0.2120          | \$1.58            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 36                               | 0.0167  |
| 7383 | Air Raid/Fallout Shelter          | SF | \$228.75               | \$3.30      | \$0.0000             | \$0.4310          | \$0.0000          | \$0.0000             | \$0.1328         | \$0.0000          | \$0.0000        | 45                               | 0.0134  |
| 7384 | Miscellaneous Personnel Shelter   | SF | \$58.48                | \$0.82      | \$0.0000             | \$0.1318          | \$0.0000          | \$0.0000             | \$0.1328         | \$0.0000          | \$0.0000        | 36                               | 0.0167  |
| 7385 | Public Restroom/Shower            | SF | \$123.00               | \$3.41      | \$0.1759             | \$0.3999          | \$1.58            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 36                               | 0.0167  |
| 7386 | Ceremonial Hall                   | SF | \$83.28                | \$2.12      | \$0.0688             | \$0.2083          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0119  |

**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title   | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 7387 | Exchange Support Facility                                 | SF | \$161.58               | \$3.20      | \$0.0874             | \$0.2658          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0118  |
| 7388 | Exchange Warehouse  | SF | \$129.46               | \$1.52      | \$0.0382             | \$0.1964          | \$0.1092          | \$0.0109             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0132  |
| 7389 | Private Vehicle Inspection<br>Facility                    | SF | \$109.02               | \$1.29      | \$0.0688             | \$0.1844          | \$0.9831          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 40                               | 0.0150  |
| 7411 | Hobby And Craft Center                                    | SF | \$144.06               | \$3.74      | \$0.0688             | \$0.3519          | \$0.9831          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0119  |
| 7412 | Automobile Craft Center                                   | SF | \$137.25               | \$2.44      | \$0.0688             | \$0.2826          | \$0.9831          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 40                               | 0.0149  |
| 7413 | Golf Club House and<br>Sales                              | SF | \$165.48               | \$4.61      | \$0.0688             | \$0.3256          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0119  |
| 7414 | Club and Organization<br>Building                         | SF | \$324.14               | \$4.47      | \$0.0688             | \$0.5531          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7415 | Bowling Center  | SF | \$237.51               | \$3.14      | \$0.0994             | \$0.3927          | \$0.9831          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 40                               | 0.0149  |
| 7416 | Library, General Use                                      | SF | \$238.48               | \$3.25      | \$0.0688             | \$0.3951          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |
| 7417 | Recreation Center   | SF | \$235.56               | \$4.07      | \$0.0688             | \$0.3712          | \$0.2512          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 50                               | 0.0119  |
| 7418 | Indoor Skating Rink                                       | SF | \$117.73               | \$2.21      | \$0.0382             | \$0.3025          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7421 | Indoor Physical Fitness<br>Facility                       | SF | \$203.00               | \$3.26      | \$0.0688             | \$0.3999          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7422 | Indoor Swimming Pool                                      | SF | \$201.49               | \$3.26      | \$0.0688             | \$0.3879          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 40                               | 0.0149  |
| 7431 | Auditorium and Theater<br>Facility                        | SF | \$167.42               | \$1.99      | \$0.0688             | \$0.3232          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7441 | Transient Lodging   | SF | \$205.39               | \$4.92      | \$0.1759             | \$0.3591          | \$1.58            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 41                               | 0.0147  |
| 7442 | Recreational Lodging                                      | SF | \$89.11                | \$3.21      | \$0.1759             | \$0.1724          | \$1.58            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 45                               | 0.0134  |
| 7443 | Transient and<br>Recreational Lodging<br>Support Facility | SF | \$21.69                | \$1.18      | \$0.0382             | \$0.2741          | \$0.1092          | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |
| 7444 | Stable  | SF | \$29.71                | \$0.60      | \$0.0874             | \$0.1086          | \$0.1092          | \$0.1857             | \$0.0078         | \$0.0000          | \$0.0590        | 36                               | 0.0166  |
| 7445 | Boathouse   | SF | \$27.26                | \$0.58      | \$0.0874             | \$0.0610          | \$0.1092          | \$0.0109             | \$0.0078         | \$0.0000          | \$0.0328        | 31                               | 0.0192  |
| 7446 | Miscellaneous MWR<br>Facility                             | SF | \$232.00               | \$2.25      | \$0.0688             | \$0.2706          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7447 | Miscellaneous MWR<br>Support                              | SF | \$87.61                | \$3.57      | \$0.0688             | \$0.1755          | \$0.1092          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 7511 | Playground  | EA | \$172,688.23           | \$3,453.27  | \$0.0000             | \$445.36          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7512 | Outdoor Swimming Pool                                     | EA | \$1,581,768.39         | \$10,875.83 | \$558.69             | \$3,330.59        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7513 | Golf Course   | EA | \$2,792,312.63         | \$59,532.93 | \$205,250.01         | \$8,191.50        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7514 | Golf Driving Range  | EA | \$143,036.27           | \$2,661.01  | \$11,501.11          | \$1,444.35        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7515 | Golf Pitch and Putt Course                                | EA | \$206,947.08           | \$32,564.90 | \$102,625.00         | \$2,979.47        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7516 | Outdoor Recreation Area                                   | EA | \$15,509.59            | \$955.22    | \$0.0000             | \$31.87           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |

**UFC 3-701-01**  
**June 2010**

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title   | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 7517 | Recreational Pier                                     | EA | \$6,735.74             | \$125.31    | \$0.0000             | \$9.61            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 31                               | 0.0193  |
| 7518 | Marina  | EA | \$665,943.25           | \$12,389.01 | \$13,246.69          | \$2,419.51        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 37                               | 0.0161  |
| 7521 | Outdoor Playing Court                                 | EA | \$65,034.09            | \$1,604.24  | \$0.0000             | \$96.60           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7522 | Athletic Field  | EA | \$191,315.13           | \$3,737.58  | \$11,402.78          | \$452.25          | \$0.0000          | \$0.0000             | \$4,037.81       | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7523 | Running Track   | EA | \$143,308.71           | \$3,224.92  | \$0.0000             | \$299.19          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7524 | Stadium   | EA | \$2,412,659.30         | \$57,613.93 | \$11,402.78          | \$6,853.92        | \$0.0000          | \$0.0000             | \$4,037.81       | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7531 | Pavilion  | SF | \$56.03                | \$0.58      | \$0.0000             | \$0.1429          | \$0.0000          | \$0.0874             | \$0.0078         | \$0.0000          | \$0.0328        | 35                               | 0.0171  |
| 7532 | Outdoor Theater                                       | EA | \$147,196.80           | \$7,236.97  | \$0.0000             | \$968.42          | \$0.0000          | \$32.77              | \$0.0000         | \$0.0000          | \$98.31         | 25                               | 0.0240  |
| 7541 | Recreational Camp and<br>Trailer Park                 | EA | \$333,365.07           | \$16,389.98 | \$28,503.15          | \$580.08          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7542 | Miscellaneous Outdoor<br>Recreation Facility          | EA | \$73,414.91            | \$1,778.95  | \$0.0000             | \$169.00          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 25                               | 0.0240  |
| 7543 | Wildlife Management Area                              | AC | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 7601 | Museum  | SF | \$122.83               | \$3.23      | \$0.1223             | \$0.3951          | \$1.23            | \$0.0874             | \$0.1328         | \$0.0000          | \$0.0328        | 55                               | 0.0109  |
| 7602 | Monument and Memorial                                 | EA | \$6,863.21             | \$148.40    | \$0.0000             | \$15.80           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 60                               | 0.0100  |
| 7603 | Cemetery  | EA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 8111 | Electrical Power Source                               | KW | \$310.39               | \$15.14     | \$0.0000             | \$2.49            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0140  |
| 8112 | Stand-By/Emergency<br>Power                           | KW | \$270.17               | \$18.71     | \$0.0000             | \$1.05            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0140  |
| 8113 | Electrical Power Source,<br>Hydroelectric             | MW | \$299,289.46           | \$15,139.98 | \$0.0000             | \$2.48            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0140  |
| 8114 | Electrical Power Source,<br>Wind Generated            | KW | \$386.17               | \$15.14     | \$0.0000             | \$2.48            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0140  |
| 8121 | Electrical Power<br>Distribution Line,<br>Overhead    | LF | \$24.69                | \$0.28      | \$0.0000             | \$0.0576          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0140  |
| 8122 | Exterior Lighting, Pole                               | EA | \$3,144.84             | \$47.23     | \$0.0000             | \$15.58           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0140  |
| 8123 | Electrical Power<br>Distribution Line,<br>Underground | LF | \$30.18                | \$0.59      | \$0.0000             | \$0.1472          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0140  |
| 8131 | Electrical Power<br>Substation                        | KV | \$202.00               | \$16.51     | \$0.0000             | \$0.4650          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0140  |
| 8132 | Electrical Power Switching<br>Station                 | KV | \$10.80                | \$0.24      | \$0.0000             | \$0.0249          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0140  |
| 8133 | Electrical Power<br>Transformers                      | KV | \$34.65                | \$5.01      | \$0.0000             | \$0.0908          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0140  |

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title   | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 8211 | Heat Source   | MB | \$48,017.72            | \$845.59    | \$0.0000             | \$27.88           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 34                               | 0.0182  |
| 8221 | Heat Distribution Line                                | LF | \$193.10               | \$2.40      | \$0.0000             | \$0.4861          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 34                               | 0.0182  |
| 8231 | Heat Gas Production Plant                             | MB | \$3,804.95             | \$16.45     | \$0.0000             | \$8.89            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 34                               | 0.0182  |
| 8232 | Heat Gas Storage                                      | EA | \$46,203.75            | \$55.87     | \$0.0000             | \$79.59           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 24                               | 0.0258  |
| 8241 | Heat Gas Distribution Line                            | LF | \$16.00                | \$0.11      | \$0.0000             | \$0.1951          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 36                               | 0.0171  |
| 8261 | Refrigeration and Air<br>Conditioning Source          | TR | \$3,953.93             | \$71.65     | \$0.0000             | \$7.77            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 14                               | 0.0447  |
| 8271 | Chilled Water and<br>Refrigerant Distribution<br>Line | LF | \$88.28                | \$3.44      | \$0.0000             | \$0.1077          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 28                               | 0.0221  |
| 8311 | Sewage Treatment                                      | KG | \$5,265.56             | \$113.31    | \$0.0000             | \$11.34           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8312 | Industrial Waste<br>Treatment                         | KG | \$5,753.12             | \$113.31    | \$0.0000             | \$11.34           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8313 | Water Separation Facility                             | KG | \$92.15                | \$0.52      | \$0.0000             | \$0.2046          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8314 | Septic Tank and Drain<br>Field                        | GA | \$4.97                 | \$0.01      | \$0.0000             | \$0.0129          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 24                               | 0.0250  |
| 8315 | Septic Lagoon and<br>Settlement Ponds                 | GA | \$0.65                 | \$0.0019    | \$0.0000             | \$0.0051          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 24                               | 0.0250  |
| 8316 | Sewage Lift Stations                                  | EA | \$204,802.50           | \$1,124.54  | \$314.57             | \$519.18          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$134.82        | 24                               | 0.0250  |
| 8321 | Sewer and Industrial<br>Waste Line                    | LF | \$32.77                | \$1.65      | \$0.0000             | \$0.1279          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 60                               | 0.0099  |
| 8331 | Refuse Collection and<br>Recycling Facility           | EA | \$238,265.74           | \$4,385.49  | \$314.86             | \$519.65          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$134.94        | 45                               | 0.0133  |
| 8332 | Incinerator   | TH | \$304,878.86           | \$5,865.68  | \$0.0000             | \$13.85           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0133  |
| 8333 | Sanitary Landfill                                     | AC | \$628,631.65           | \$5,139.81  | \$0.0000             | \$1,312.41        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 36                               | 0.0166  |
| 8334 | Hazardous Waste Landfill                              | AC | \$1,257,263.29         | \$3,902.76  | \$0.0000             | \$2,624.81        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 36                               | 0.0166  |
| 8411 | Water Source, Potable                                 | KG | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 8412 | Water Treatment Facility                              | KG | \$1,950.21             | \$20.34     | \$0.0000             | \$8.05            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8413 | Water Storage, Potable                                | GA | \$2.53                 | \$0.03      | \$0.0000             | \$0.0051          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8414 | Water Well, Potable                                   | KG | \$39.35                | \$4.09      | \$0.0000             | \$0.0185          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8415 | Desalinization Plant                                  | KG | \$7,577.48             | \$145.07    | \$0.0000             | \$15.77           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8421 | Water Distribution Line,<br>Potable                   | LF | \$22.47                | \$1.00      | \$0.0000             | \$0.0934          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 60                               | 0.0099  |
| 8422 | Water Pump Facility,<br>Potable                       | KG | \$72.74                | \$0.02      | \$0.0000             | \$0.2073          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |



**UFC 3-701-01**  
**June 2010**

(not to be used for military  
construction projects)

| Unit costs (\$FY 2010) |  |    |              |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------------------------|--|----|--------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC                    | FAC Title                                    | UM | Replacement  | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 8431                   | Water Source, Fire Protection                | GM | \$98.93      | \$0.11      | \$0.0000             | \$0.0971          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8432                   | Water Distribution Line, Fire Protection     | LF | \$22.47      | \$1.00      | \$0.0000             | \$0.0934          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8433                   | Water Impoundment, Fire Protection           | MG | \$0.00       | \$0.00      | \$0.0000             | \$594.36          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 8434                   | Water Pump Facility, Fire Protection         | KG | \$72.74      | \$0.02      | \$0.0000             | \$0.2073          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8435                   | Water Tank, Fire Protection                  | GA | \$2.53       | \$0.0003    | \$0.0000             | \$0.0051          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8441                   | Water Source, Non-Potable                    | KG | \$55.87      | \$0.09      | \$0.0000             | \$0.0185          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8442                   | Water Storage, Non-Potable                   | GA | \$1.01       | \$0.0003    | \$0.0000             | \$0.0051          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8443                   | Reservoir, Water                             | MG | \$0.00       | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 8451                   | Water Distribution Line, Non-Potable         | LF | \$22.47      | \$1.00      | \$0.0000             | \$0.0934          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8452                   | Water Pump Facility, Non-Potable             | KG | \$72.74      | \$0.02      | \$0.0000             | \$0.2073          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0119  |
| 8511                   | Road, Surfaced                               | SY | \$26.36      | \$0.63      | \$0.0000             | \$0.0543          | \$0.0000          | \$0.0000             | \$0.0999         | \$0.0492          | \$0.0000        | 28                               | 0.0214  |
| 8512                   | Road, Unsurfaced                             | SY | \$11.10      | \$0.55      | \$0.0000             | \$0.0162          | \$0.0000          | \$0.0000             | \$0.0999         | \$0.0005          | \$0.0000        | 28                               | 0.0214  |
| 8513                   | Vehicle Bridge                               | SY | \$997.32     | \$13.05     | \$0.0000             | \$2.19            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0492          | \$0.0000        | 46                               | 0.0130  |
| 8514                   | Vehicular Tunnel                             | LF | \$17,059.14  | \$0.00      | \$0.0000             | \$0.0959          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | #N/A  |
| 8521                   | Vehicle Parking, Surfaced                    | SY | \$26.79      | \$1.23      | \$0.0000             | \$0.1025          | \$0.0000          | \$0.0000             | \$0.0250         | \$0.0492          | \$0.0000        | 32                               | 0.0187  |
| 8522                   | Vehicle Parking and Staging Area, Unsurfaced | SY | \$11.46      | \$0.17      | \$0.0000             | \$0.0162          | \$0.0000          | \$0.0000             | \$0.0250         | \$0.0005          | \$0.0000        | 32                               | 0.0187  |
| 8523                   | Vehicle Staging Area, Surfaced               | SY | \$23.96      | \$1.23      | \$0.0000             | \$0.0784          | \$0.0000          | \$0.0000             | \$0.0250         | \$0.0005          | \$0.0000        | 32                               | 0.0187  |
| 8524                   | Sidewalk and Walkway                         | SY | \$32.42      | \$0.00      | \$0.0000             | \$0.0926          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 28                               | 0.0214  |
| 8525                   | Pedestrian Bridge                            | SY | \$1,356.97   | \$17.76     | \$0.0000             | \$2.34            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 46                               | 0.0130  |
| 8526                   | Miscellaneous Paved Area                     | SY | \$23.96      | \$1.44      | \$0.0000             | \$0.1078          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0005          | \$0.0000        | 32                               | 0.0187  |
| 8531                   | Parking Garage/Building                      | SF | \$53.00      | \$0.59      | \$0.0000             | \$0.0827          | \$0.1092          | \$0.0109             | \$0.1350         | \$0.0000          | \$0.0328        | 45                               | 0.0133  |
| 8541                   | Traffic Control Signals                      | EA | \$162,091.65 | \$2,123.41  | \$0.0000             | \$241.43          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 15                               | 0.0403  |
| 8601                   | Railroad Track                               | MI | \$472,118.03 | \$18,833.55 | \$0.0000             | \$2,053.38        | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 40                               | 0.0154  |
| 8611                   | Railroad Bridge                              | LF | \$9,580.46   | \$125.44    | \$0.0000             | \$18.14           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 46                               | 0.0134  |



**UFC 3-701-01  
June 2010**

(not to be used for military  
construction projects)

|      |  |    | Unit costs (\$FY 2010) |                |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|--|----|------------------------|----------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title                                    | UM | Replacement            | Sustainment    | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 8612 | Miscellaneous Railroad Facility              | EA | \$106,193.59           | \$2,512.11     | \$0.0000             | \$235.71          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 30                               | 0.0206  |
| 8711 | Storm Drainage                               | LF | \$2.65                 | \$0.0036       | \$0.0000             | \$0.0092          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 34                               | 0.0182  |
| 8712 | Retaining Structure                          | LF | \$185.13               | \$7.33         | \$0.0000             | \$1.09            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 36                               | 0.0166  |
| 8713 | Grounds Drainage Dams                        | EA | \$1,729,336.66         | \$2,352.82     | \$0.0000             | \$141.84          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 39                               | 0.0158  |
| 8714 | Levees and Dikes for Grounds Drainage        | LF | \$1,383.82             | \$6.11         | \$0.0000             | \$1.09            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 39                               | 0.0158  |
| 8715 | Storm Water Ponds                            | MG | \$0.00                 | \$0.00         | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 8721 | Boundary Fence and Wall                      | LF | \$38.46                | \$1.52         | \$0.0000             | \$0.0814          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 26                               | 0.0231  |
| 8722 | Security Fence                               | LF | \$63.12                | \$2.47         | \$0.0000             | \$0.0813          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 26                               | 0.0231  |
| 8811 | Dam  | EA | \$37,020,940.24        | \$1,084,261.31 | \$8,066.77           | \$89,750.07       | \$0.0000          | \$12,244.21          | \$511.38         | \$0.0000          | \$720.25        | 39                               | 0.0158  |
| 8812 | Lock   | EA | \$37,020,940.24        | \$1,084,261.31 | \$8,074.18           | \$89,832.41       | \$0.0000          | \$12,255.45          | \$511.85         | \$0.0000          | \$720.91        | 39                               | 0.0158  |
| 8813 | Navigation Revetments                        | LF | \$178.51               | \$11.49        | \$0.0000             | \$1.08            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 39                               | 0.0158  |
| 8814 | Training Dikes/Wing Dams/Pile Dikes          | LF | \$1,334.31             | \$6.11         | \$0.0000             | \$1.08            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 39                               | 0.0158  |
| 8821 | Flood Control Structures                     | EA | \$623,188.55           | \$2,858.23     | \$0.0000             | \$99.91           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 39                               | 0.0158  |
| 8822 | Flood Control Levee/Floodwall                | LF | \$1,334.31             | \$6.11         | \$0.0000             | \$1.08            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 39                               | 0.0158  |
| 8831 | Fish Facilities                              | EA | \$313,458.85           | \$1,438.29     | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 39                               | 0.0158  |
| 8910 | Utility Building                             | SF | \$162.56               | \$3.47         | \$0.0000             | \$0.3927          | \$0.0000          | \$0.0000             | \$0.0078         | \$0.0000          | \$0.0328        | 55                               | 0.0114  |
| 8921 | Installation Gas Production Plant            | EA | \$285,368.57           | \$7,228.30     | \$0.0000             | \$673.41          | \$0.0000          | \$16.38              | \$0.0000         | \$0.0000          | \$49.15         | 55                               | 0.0108  |
| 8922 | Installation Gas Storage                     | EA | \$55,841.81            | \$1,018.07     | \$0.0000             | \$77.92           | \$0.0000          | \$14.17              | \$0.0000         | \$0.0000          | \$42.50         | 30                               | 0.0206  |
| 8923 | Vehicle Scales                               | EA | \$45,259.81            | \$1,070.66     | \$0.0000             | \$49.83           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 30                               | 0.0206  |
| 8924 | Miscellaneous Pump Station                   | EA | \$12,639.10            | \$118.65       | \$0.0000             | \$485.53          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 50                               | 0.0123  |
| 8925 | Energy Management and Control System         | EA | \$290,987.68           | \$13,907.28    | \$0.0000             | \$687.71          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 14                               | 0.0447  |
| 8926 | Hazardous Waste Storage Or Disposal Facility | EA | \$238,265.74           | \$4,343.89     | \$0.0000             | \$519.65          | \$0.0000          | \$54.61              | \$0.0000         | \$0.0000          | \$163.84        | 45                               | 0.0137  |
| 8927 | Utility Vaults                               | EA | \$20,258.86            | \$121.53       | \$0.0000             | \$47.65           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0133  |
| 8928 | Loading Platform/Ramp                        | EA | \$18,345.74            | \$91.48        | \$0.0000             | \$25.66           | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 30                               | 0.0200  |
| 8929 | Miscellaneous Utility Facility               | EA | \$2,947.48             | \$289.25       | \$0.0000             | \$8.23            | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0137  |
| 8930 | Installation Gas Distribution Line           | LF | \$15.66                | \$0.50         | \$0.0000             | \$0.1951          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 36                               | 0.0171  |
| 8931 | Utility Tunnel                               | LF | \$49.56                | \$0.30         | \$0.0000             | \$0.0959          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 60                               | 0.0103  |

(not to be used for military  
construction projects)

|      |   |    | Unit costs (\$FY 2010) |             |                      |                   |                   |                      |                  |                   |                 | Useful<br>Svc<br>Life<br>(years) | Modern-<br>ization<br>Factor<br>(no<br>units) |
|------|---|----|------------------------|-------------|----------------------|-------------------|-------------------|----------------------|------------------|-------------------|-----------------|----------------------------------|---|
| FAC  | FAC Title                                 | UM | Replacement            | Sustainment | Water/<br>Wastewater | Real Prop<br>Mgmt | Custodial<br>Svcs | Refuse<br>Collection | Grounds<br>Maint | Pvmt<br>Clearance | Pest<br>Control |                                  |   |
| 8951 | Miscellaneous Storage Tank and Basin      | GA | \$0.95                 | \$0.0029    | \$0.0000             | \$0.0023          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | 45                               | 0.0137  |
| 8999 | Miscellaneous Component of Other Facility | NA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9110 | Government Owned land                     | AC | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9111 | State Owned Land                          | AC | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9120 | Withdrawn Public land                     | AC | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9130 | Licensed and Permitted Land               | AC | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9140 | Public Land                               | AC | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9210 | Land Easement                             | AC | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9220 | In-leased Land                            | AC | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9230 | Foreign Land                              | AC | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9311 | Building Improvements and Acquisitions    | NA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9321 | Clearing, Grading, and Landscaping        | NA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9331 | Demolition                                | NA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9341 | Cut and Fill                              | NA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9351 | Dredging                                  | NA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9391 | Other Real Property Improvements          | NA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9411 | Contaminated Facility or Area             | NA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |
| 9999 | Not Real Property                         | NA | \$0.00                 | \$0.00      | \$0.0000             | \$0.0000          | \$0.0000          | \$0.0000             | \$0.0000         | \$0.0000          | \$0.0000        | N/A                              | N/A   |

## CHAPTER 4 COST ADJUSTMENT FACTORS

### 4-1 LOCATION ADJUSTMENTS

Table 4-1 provides area cost factors (ACFs) to be used for adjusting “bare” unit costs to location-specific costs for the most common locations. A complete table of all DoD sites that includes locality indices (LI) for adjusting operation costs is available as part of the supporting documentation download file accompanying this UFC on the Whole Building Design Guide web site:

[http://www.wbdg.org/ccb/DOD/UFC/ufc\\_3\\_701\\_01\\_FY10supplement.zip](http://www.wbdg.org/ccb/DOD/UFC/ufc_3_701_01_FY10supplement.zip).

For military construction projects, use the MILCON ACFs with the primary facility unit costs from Chapter 2 or approved Air Force, Army, or Navy MILCON Pricing Guide. For calculating Plant Replacement Value, use the MILCON ACFs with the appropriate replacement unit costs from Chapter 3. For calculating sustainment costs, use the sustainment ACFs with the appropriate sustainment unit costs from Chapter 3. For calculating operation costs, use the appropriate operation function LI with the corresponding operation cost from Chapter 3.

Do not use the MILCON ACFs to modify parametric cost estimates, detailed quantity-take-offs, unit price book (UPB) line items, commercial cost data, or user-generated unit costs. These cost estimating methods and databases have their own processes and factors for adjusting costs to different locations.

MILCON and sustainment ACFs were developed using the Tri-Service Cost Engineering ACF software program. Operation LIs were developed by Whitestone Research Corporation specifically for application in the DoD Facilities Operation Model.

In general, the Tri-Service Cost Engineering ACF software program evaluates the local costs for a United States market basket of 8 labor crafts, 17 construction materials, and 4 equipment items. These labor, materials, and equipment (LME) items are representative of the types of products, services, and methods used to construct most military facilities in the United States. Each of the LME costs is normalized and weighted to represent its contribution to the total cost of a typical facility. The normalized LME is then modified by seven matrix factors that cover local conditions affecting construction costs. These matrix factors include weather, seismic, climatic (frost zone, wind loads, and HVAC systems), labor availability, contractor overhead and profit, life support and mobilization, and labor productivity versus the U.S. standard. The resultant ACF for each location is normalized again by dividing by the 96-Base-City average to provide a final ACF that reflects the relative relationship of construction costs between that location and the 96-Base-City average as 1.00.

MILCON ACFs were calculated using a LME ratio of 35/63/2. Sustainment ACFs were calculated using a LME ratio of 53/46/1.

MILCON ACFs for some locations have been updated from previous list based on the latest data input from the services' and field offices. A new CONUS construction market survey was conducted in 2008. It covered 228 locations that includes 96 Base Cities

(two per state in the continental US), and an additional 132 locations. New CONUS and OCONUS construction market surveys will be conducted in 2009, covering CONUS locations as indicated above and also in excess of 100 overseas locations. The OCONUS survey will be based on a market basket of goods for typical US labor, material, equipment, and construction methods. When using local materials and construction methods the ACF should be adjusted based on local experience.

There is no easy correlation between the MILCON ACFs and previous construction ACFs for specific locations. No common benchmarks exist because both the Base City average and the relationships between cities change each cycle. It is possible, however, to compare differences between several locations in this database with differences between the same locations in previous databases.

The ACF is not intended to or capable of responding to rapid changes in the market place. Examples include Acts of God, accelerated construction schedules, changes in the demand and supply for construction materials, labor, and equipment. An increased demand for labor beyond what the local market can supply may require the enticement of premium pay, overtime hours, temporary living expenses, and travel expenses.

Users may request revisions to published ACFs when market conditions unexpectedly change. Each request must be initiated by the USACE District senior cost engineer through HQUSACE or by the NAVFAC regional cost engineer to their corresponding NAVFAC Atlantic or Pacific Tri-Service Cost Engineering committee member. The local cost engineer shall provide updated market basket ACF software input factors to HQUSACE or NAVFAC for them to update the Tri-Service Cost Engineering ACF software.

Table 4-1: Area Cost Factors

| Inside US                    | MILCON      | sustain |
|------------------------------|-------------|---------|
| <b>ALABAMA</b>               | <b>0.83</b> | 0.81    |
| MOBILE                       | 0.83        | 0.82    |
| MONTGOMERY                   | 0.82        | 0.80    |
| ANNISTON ARMY DEPOT          | 0.82        | 0.80    |
| FORT MCCLELLAN               | 0.82        | 0.80    |
| FORT RUCKER                  | 0.79        | 0.73    |
| MAXWELL AIR FORCE BASE       | 0.82        | 0.80    |
| MOBILE AREA                  | 0.83        | 0.82    |
| REDSTONE ARSENAL             | 0.83        | 0.83    |
| <b>ALASKA</b>                | <b>1.97</b> | 1.96    |
| ANCHORAGE                    | 1.79        | 1.80    |
| FAIRBANKS                    | 2.14        | 2.13    |
| ADAK NAVAL STATION           | 4.06        | 3.83    |
| CG - JUNEAU                  | 2.38        | 2.32    |
| CG - KETCHIKAN               | 2.24        | 2.22    |
| CG - KODIAK                  | 2.54        | 2.49    |
| CG - PRINCE WILLIAM SOUND    | 2.21        | 2.17    |
| CLEAR AIR FORCE BASE         | 2.27        | 2.25    |
| EARECKSON AIR FORCE BASE     | 3.97        | 3.74    |
| EIELSON AIR FORCE BASE       | 2.14        | 2.13    |
| ELMENDORF AIR FORCE BASE     | 1.79        | 1.80    |
| FORT GREELY                  | 2.31        | 2.29    |
| FORT RICHARDSON              | 1.79        | 1.80    |
| FORT WAINWRIGHT              | 2.14        | 2.13    |
| <b>ARIZONA</b>               | <b>0.98</b> | 0.96    |
| FLAGSTAFF                    | 1.01        | 0.98    |
| TUCSON                       | 0.96        | 0.94    |
| DAVIS MONTHAN AIR FORCE BASE | 0.99        | 0.98    |
| FORT HUACHUCA                | 1.06        | 1.05    |
| LUKE AIR FORCE BASE          | 1.02        | 1.01    |
| NAVAJO ARMY DEPOT            | 1.01        | 0.98    |
| YUMA MCAS                    | 1.26        | 1.30    |
| YUMA PROVING GROUND          | 1.26        | 1.30    |
| <b>ARKANSAS</b>              | <b>0.92</b> | 0.89    |
| FORT SMITH                   | 0.92        | 0.89    |

| Inside US                        | MILCON      | sustain |
|----------------------------------|-------------|---------|
| PINE BLUFF                       | 0.91        | 0.89    |
| FORT CHAFFEE                     | 0.92        | 0.89    |
| LITTLE ROCK AIR FORCE BASE       | 0.94        | 0.93    |
| PINE BLUFF ARSENAL               | 0.91        | 0.89    |
| <b>CALIFORNIA</b>                | <b>1.19</b> | 1.25    |
| SAN DIEGO                        | 1.14        | 1.17    |
| SAN FRANCISCO                    | 1.25        | 1.32    |
| 29 PALMS MARINE CORPS BASE       | 1.25        | 1.28    |
| BARSTOW                          | 1.28        | 1.32    |
| BEALE AIR FORCE BASE             | 1.25        | 1.29    |
| Camp Pendleton Marine Corps Base | 1.14        | 1.17    |
| CENTERVILLE BEACH                | 0.94        | 0.90    |
| CG - ALAMEDA                     | 1.25        | 1.30    |
| CG - PETALUMA                    | 1.30        | 1.35    |
| CHINA LAKES NAVAL WEAPONS CENTER | 1.27        | 1.30    |
| CONCORD                          | 1.25        | 1.32    |
| EDWARDS AIR FORCE BASE           | 1.30        | 1.34    |
| EL CENTRO NAVAL AIR FIELD        | 1.19        | 1.23    |
| FORT HUNTER LIGGETT              | 1.19        | 1.21    |
| FORT IRWIN                       | 1.28        | 1.32    |
| FORT ORD                         | 1.25        | 1.28    |
| LEMOORE                          | 1.16        | 1.18    |
| LOS ANGELES AREA                 | 1.13        | 1.18    |
| MARCH AIR RESERVE STATION        | 1.10        | 1.14    |
| MONTEREY AREA                    | 1.25        | 1.28    |
| POINT MUGU                       | 1.12        | 1.16    |
| PORT HUENEME AREA                | 1.12        | 1.16    |
| SACRAMENTO AREA                  | 1.12        | 1.16    |
| SAN CLEMENTE ISLAND              | 1.86        | 1.90    |
| SAN NICOLAS ISLAND               | 1.88        | 1.92    |
| SEAL BEACH                       | 1.13        | 1.18    |
| SHARPE ARMY DEPOT                | 1.15        | 1.20    |
| SIERRA ARMY DEPOT                | 1.29        | 1.32    |
| STOCKTON AREA                    | 1.15        | 1.20    |
| TRAVIS AIR FORCE BASE            | 1.29        | 1.34    |

| Inside US                     | MILCON      | sustain |
|-------------------------------|-------------|---------|
| VANDENBERG AIR FORCE BASE     | 1.21        | 1.25    |
| <b>COLORADO</b>               | <b>1.06</b> | 1.04    |
| COLORADO SPRINGS              | 1.09        | 1.07    |
| DENVER                        | 1.03        | 1.02    |
| AIR FORCE ACADEMY             | 1.09        | 1.07    |
| BUCKLEY AIR FORCE BASE        | 1.03        | 1.02    |
| CHEYENNE MOUNTAIN             | 1.16        | 1.14    |
| FORT CARSON                   | 1.09        | 1.07    |
| PETERSON AIR FORCE BASE       | 1.09        | 1.07    |
| PUEBLO ARMY DEPOT             | 0.96        | 0.94    |
| ROCKY MOUNTAIN ARSENAL        | 1.03        | 1.02    |
| SCHRIEVER AIR FORCE BASE      | 1.09        | 1.07    |
| <b>CONNECTICUT</b>            | <b>1.11</b> | 1.15    |
| BRIDGEPORT                    | 1.09        | 1.13    |
| NEW LONDON                    | 1.14        | 1.18    |
| NEW LONDON AREA               | 1.14        | 1.18    |
| STRATFORD ENG PLANT           | 1.09        | 1.13    |
| <b>DELAWARE</b>               | <b>1.05</b> | 1.08    |
| DOVER                         | 1.08        | 1.10    |
| WILMINGTON                    | 1.03        | 1.05    |
| DOVER AIR FORCE BASE          | 1.08        | 1.10    |
| <b>FLORIDA</b>                | <b>0.93</b> | 0.92    |
| MIAMI                         | 0.99        | 0.99    |
| PANAMA CITY                   | 0.87        | 0.84    |
| CAPE CANAVERAL                | 0.96        | 0.95    |
| EGLIN AIR FORCE BASE          | 0.87        | 0.85    |
| HOMESTEAD AIR RESERVE STATION | 0.99        | 0.99    |
| JACKSONVILLE AREA             | 0.92        | 0.89    |
| KEY WEST NAVAL AIR STATION    | 1.19        | 1.18    |
| MACDILL AIR FORCE BASE        | 0.98        | 0.99    |
| MAYPORT                       | 0.92        | 0.89    |
| ORLANDO AREA                  | 0.90        | 0.88    |
| PANAMA CITY AREA              | 0.87        | 0.84    |
| PENSACOLA AREA                | 0.90        | 0.87    |
| TYNDALL AIR FORCE BASE        | 0.87        | 0.84    |
| WHITING FIELD                 | 0.90        | 0.87    |
| <b>GEORGIA</b>                | <b>0.82</b> | 0.81    |

| Inside US                   | MILCON      | sustain |
|-----------------------------|-------------|---------|
| ALBANY                      | 0.78        | 0.76    |
| ATLANTA                     | 0.85        | 0.86    |
| ATHENS                      | 0.84        | 0.83    |
| FORT BENNING                | 0.98        | 0.97    |
| FORT GILLEM                 | 0.85        | 0.86    |
| FORT GORDON                 | 0.87        | 0.86    |
| FORT MCPHERSON              | 0.85        | 0.86    |
| FORT STEWART                | 0.92        | 0.90    |
| KINGS BAY                   | 0.94        | 0.92    |
| MOODY AIR FORCE BASE        | 0.83        | 0.81    |
| ROBINS AIR FORCE BASE       | 0.85        | 0.84    |
| <b>HAWAII</b>               | <b>2.12</b> | 2.11    |
| HONOLULU                    | 2.12        | 2.11    |
| KANEOHE BAY                 | 2.13        | 2.11    |
| BARBERS POINT NAVAL STATION | 2.12        | 2.11    |
| BARKING SANDS               | 2.31        | 2.29    |
| FORD ISLAND                 | 2.12        | 2.11    |
| FORT DERUSSY                | 2.03        | 2.03    |
| FORT SHAFTER                | 2.12        | 2.11    |
| HICKAM AIR FORCE BASE       | 2.12        | 2.11    |
| PEARL HARBOR                | 2.12        | 2.11    |
| POHAKULOA                   | 2.45        | 2.43    |
| SCHOFIELD BARRACKS          | 2.12        | 2.11    |
| TRIPLER ARMY MEDICAL CENTER | 2.12        | 2.11    |
| WHEELER ARMY AIR FIELD      | 2.12        | 2.11    |
| <b>IDAHO</b>                | <b>0.98</b> | 0.97    |
| BOISE                       | 0.92        | 0.91    |
| MOUNTAIN HOME               | 1.05        | 1.04    |
| <b>ILLINOIS</b>             | <b>1.19</b> | 1.24    |
| BELLEVILLE                  | 1.06        | 1.10    |
| CHICAGO                     | 1.31        | 1.38    |
| FOREST PARK (CHICAGO)       | 1.31        | 1.38    |
| GLENVIEW (CHICAGO)          | 1.31        | 1.38    |
| GREAT LAKES (NTC)           | 1.31        | 1.37    |
| ROCK ISLAND ARSENAL         | 1.03        | 1.04    |
| SAVANNAH ARMY DEPOT         | 1.01        | 1.03    |
| SCOTT AIR FORCE BASE        | 1.07        | 1.11    |

| Inside US                    | MILCON      | sustain |
|------------------------------|-------------|---------|
| <b>INDIANA</b>               | <b>0.97</b> | 0.97    |
| INDIANAPOLIS                 | 0.99        | 0.99    |
| LOGANSPOUT                   | 0.95        | 0.95    |
| CRANE NWSC                   | 1.05        | 1.06    |
| FORT BENJAMIN HARRISON       | 0.99        | 0.99    |
| GRISSOM AIR RESERVE BASE     | 1.03        | 1.03    |
| <b>IOWA</b>                  | <b>0.96</b> | 0.94    |
| BURLINGTON                   | 1.02        | 1.00    |
| DES MOINES                   | 0.90        | 0.89    |
| IOWA ARMY AMMO PLANT         | 1.10        | 1.08    |
| <b>KANSAS</b>                | <b>0.89</b> | 0.86    |
| MANHATTAN                    | 0.88        | 0.85    |
| WICHITA                      | 0.90        | 0.87    |
| FORT LEAVENWORTH             | 1.05        | 1.08    |
| FORT RILEY                   | 0.99        | 0.97    |
| KANSAS ARMY AMMO PLANT       | 0.95        | 0.94    |
| MCCONNELL AIR FORCE BASE     | 0.93        | 0.91    |
| <b>KENTUCKY</b>              | <b>0.89</b> | 0.90    |
| LEXINGTON                    | 0.85        | 0.85    |
| LOUISVILLE                   | 0.94        | 0.95    |
| FORT CAMPBELL                | 1.00        | 1.00    |
| FORT KNOX                    | 1.01        | 1.01    |
| LEXINGTON/BLUE GRASS AD      | 0.91        | 0.91    |
| LOUISVILLE NAVAL AIR STATION | 0.94        | 0.95    |
| <b>LOUISIANA</b>             | <b>0.96</b> | 0.94    |
| NEW ORLEANS                  | 1.04        | 1.02    |
| SHREVEPORT                   | 0.88        | 0.86    |
| BARKSDALE AIR FORCE BASE     | 0.88        | 0.86    |
| FORT POLK                    | 0.90        | 0.86    |
| LOUISIANA ARMY AMMO PLANT    | 0.88        | 0.86    |
| NAS, JRB, NEW ORLEANS        | 1.04        | 1.02    |
| NEW ORLEANS ARMY BASE        | 1.04        | 1.02    |
| <b>MAINE</b>                 | <b>1.02</b> | 1.01    |
| BANGOR                       | 1.02        | 1.01    |
| PORTLAND                     | 1.03        | 1.01    |
| BRUNSWICK AREA               | 1.05        | 1.02    |
| CG - SOUTHWEST HARBOR        | 1.21        | 1.19    |

| Inside US                  | MILCON      | sustain |
|----------------------------|-------------|---------|
| CUTLER WINTER HARBOR       | 1.01        | 0.98    |
| KITTERY/PORTSMOUTH         | 1.10        | 1.10    |
| <b>MARYLAND</b>            | <b>0.99</b> | 0.99    |
| BALTIMORE                  | 0.96        | 0.97    |
| LEXINGTON PARK             | 1.02        | 1.01    |
| ABERDEEN PROVING GROUND    | 0.96        | 0.97    |
| ANDREWS AIR FORCE BASE     | 1.02        | 1.03    |
| ANNAPOLIS                  | 1.02        | 1.03    |
| BETHESDA                   | 1.02        | 1.03    |
| CHELTONHAM (DC)            | 1.02        | 1.03    |
| CHESAPEAKE BEACH           | 0.91        | 0.92    |
| FORT DETRICK               | 1.02        | 1.03    |
| FORT GEORGE G MEADE        | 1.02        | 1.03    |
| INDIAN HEAD                | 0.94        | 0.96    |
| PATUXENT RIVER AREA        | 1.04        | 1.03    |
| THURMONT                   | 1.14        | 1.14    |
| <b>MASSACHUSETTS</b>       | <b>1.15</b> | 1.20    |
| BOSTON                     | 1.20        | 1.26    |
| FITCHBURG                  | 1.09        | 1.13    |
| ARMY MAT & MECH LAB        | 1.08        | 1.13    |
| FORT DEVENS                | 1.15        | 1.19    |
| HANSCOM AIR FORCE BASE     | 1.20        | 1.26    |
| <b>MICHIGAN</b>            | <b>1.13</b> | 1.16    |
| DETROIT                    | 1.17        | 1.21    |
| MARQUETTE                  | 1.09        | 1.10    |
| DETROIT ARSENAL            | 1.17        | 1.21    |
| K I SAWYER AIR FORCE BASE  | 1.09        | 1.10    |
| <b>MINNESOTA</b>           | <b>1.11</b> | 1.15    |
| DULUTH                     | 1.09        | 1.13    |
| MINNEAPOLIS                | 1.13        | 1.18    |
| <b>MISSISSIPPI</b>         | <b>0.89</b> | 0.87    |
| BILOXI                     | 0.91        | 0.89    |
| COLUMBUS                   | 0.87        | 0.85    |
| COLUMBUS AIR FORCE BASE    | 0.87        | 0.85    |
| GULFPORT AREA              | 0.91        | 0.89    |
| KEESLER AIR FORCE BASE     | 0.91        | 0.89    |
| MERIDIAN NAVAL AIR STATION | 0.95        | 0.94    |



| Inside US                   | MILCON      | sustain |
|-----------------------------|-------------|---------|
| <b>MISSOURI</b>             | <b>0.95</b> | 0.97    |
| KANSAS CITY                 | 0.97        | 1.02    |
| SEDALIA                     | 0.92        | 0.92    |
| FORT LEONARD WOOD           | 1.03        | 1.03    |
| LAKE CITY ARMY AMMO PLANT   | 0.99        | 1.03    |
| ST LOUIS ARMY AMMO PLANT    | 1.06        | 1.10    |
| WHITEMAN AIR FORCE BASE     | 1.02        | 1.02    |
| <b>MONTANA</b>              | <b>1.09</b> | 1.07    |
| BILLINGS                    | 1.09        | 1.07    |
| GREAT FALLS                 | 1.09        | 1.07    |
| MALMSTROM AIR FORCE BASE    | 1.09        | 1.07    |
| <b>NEBRASKA</b>             | <b>0.95</b> | 0.96    |
| GRAND ISLAND                | 0.93        | 0.94    |
| OMAHA                       | 0.98        | 0.98    |
| Cornhusker Army Ammo Plant  | 0.93        | 0.94    |
| OFFUTT AIR FORCE BASE       | 0.98        | 0.98    |
| <b>NEVADA</b>               | <b>1.28</b> | 1.29    |
| HAWTHORNE                   | 1.34        | 1.32    |
| LAS VEGAS                   | 1.22        | 1.25    |
| CREECH AIR FORCE BASE       | 1.30        | 1.33    |
| FALLON                      | 1.24        | 1.23    |
| HAWTHORNE ARMY AMMO PLANT   | 1.34        | 1.32    |
| NELLIS AIR FORCE BASE       | 1.26        | 1.29    |
| <b>NEW HAMPSHIRE</b>        | <b>1.03</b> | 1.04    |
| CONCORD                     | 1.00        | 1.32    |
| PORTSMOUTH                  | 1.06        | 1.07    |
| <b>NEW JERSEY</b>           | <b>1.19</b> | 1.25    |
| NEWARK                      | 1.18        | 1.24    |
| TRENTON                     | 1.20        | 1.26    |
| BAYONNE MOT                 | 1.18        | 1.24    |
| CG - CAPE MAY               | 1.15        | 1.18    |
| EARLE NAVAL WEAPONS STATION | 1.23        | 1.29    |
| FORT DIX                    | 1.20        | 1.26    |
| FORT MONMOUTH               | 1.23        | 1.29    |
| LAKEHURST                   | 1.20        | 1.26    |
| MCGUIRE AIR FORCE BASE      | 1.20        | 1.26    |
| PICATINNY ARSENAL           | 1.22        | 1.28    |

| Inside US                  | MILCON      | sustain |
|----------------------------|-------------|---------|
| <b>NEW MEXICO</b>          | <b>0.99</b> | 0.97    |
| ALAMOGORDO                 | 0.98        | 0.97    |
| ALBUQUERQUE                | 0.99        | 0.98    |
| CANNON AIR FORCE BASE      | 1.02        | 1.00    |
| HOLLOMAN AIR FORCE BASE    | 1.01        | 0.99    |
| KIRTLAND AIR FORCE BASE    | 0.99        | 0.98    |
| WHITE SANDS MISSILE RANGE  | 1.03        | 1.01    |
| <b>NEW YORK</b>            | <b>1.06</b> | 1.08    |
| ALBANY NEW YORK            | 1.03        | 1.04    |
| BUFFALO                    | 1.10        | 1.12    |
| CG - MONTAUK               | 1.33        | 1.41    |
| FORT DRUM                  | 1.15        | 1.16    |
| LONG ISLAND                | 1.28        | 1.36    |
| NEW YORK CITY              | 1.47        | 1.56    |
| NIAGARA                    | 1.10        | 1.12    |
| ROME LABORATORY            | 1.07        | 1.07    |
| SCOTIA                     | 1.03        | 1.04    |
| SENECA ARMY DEPOT          | 1.07        | 1.07    |
| STATEN ISLAND              | 1.47        | 1.56    |
| US MILITARY ACADEMY        | 1.37        | 1.41    |
| WATERVLIET ARSENAL         | 1.03        | 1.04    |
| <b>NORTH CAROLINA</b>      | <b>0.87</b> | 0.83    |
| FAYETTEVILLE               | 0.90        | 0.86    |
| GREENSBORO                 | 0.84        | 0.80    |
| CAMP LEJEUNE AREA          | 1.06        | 1.02    |
| CHERRY POINT               | 1.06        | 1.01    |
| FORT BRAGG                 | 0.92        | 0.88    |
| NEW RIVER                  | 1.06        | 1.02    |
| POPE AIR FORCE BASE        | 0.92        | 0.88    |
| SEYMOUR JOHNSON AFB        | 0.84        | 0.80    |
| SUNNY POINT                | 0.89        | 0.85    |
| <b>NORTH DAKOTA</b>        | <b>1.04</b> | 1.00    |
| GRAND FORKS                | 0.99        | 0.95    |
| MINOT                      | 1.09        | 1.06    |
| GRAND FORKS AIR FORCE BASE | 0.99        | 0.95    |
| MINOT AIR FORCE BASE       | 1.09        | 1.06    |
| <b>OHIO</b>                | <b>0.92</b> | 0.93    |



| Inside US                 | MILCON      | sustain |
|---------------------------|-------------|---------|
| DAYTON                    | 0.93        | 0.94    |
| YOUNGSTOWN                | 0.91        | 0.92    |
| RAVENNA ARMY AMMO PLANT   | 0.96        | 0.98    |
| WRIGHT-PATTERSON AFB      | 0.93        | 0.94    |
| <b>OKLAHOMA</b>           | <b>0.91</b> | 0.88    |
| LAWTON                    | 0.90        | 0.87    |
| OKLAHOMA CITY             | 0.91        | 0.88    |
| ALTUS AIR FORCE BASE      | 0.97        | 0.94    |
| FORT SILL                 | 0.90        | 0.87    |
| MCALISTER ARMY AMMO PLANT | 0.78        | 0.75    |
| TINKER AIR FORCE BASE     | 0.91        | 0.88    |
| VANCE AIR FORCE BASE      | 0.90        | 0.86    |
| <b>OREGON</b>             | <b>1.07</b> | 1.08    |
| PENDLETON                 | 1.08        | 1.09    |
| PORTLAND                  | 1.05        | 1.01    |
| UMATILLA ARMY DEPOT       | 1.19        | 1.20    |
| <b>PENNSYLVANIA</b>       | <b>1.03</b> | 1.07    |
| PHILADELPHIA              | 1.12        | 1.18    |
| PITTSBURGH                | 0.94        | 0.96    |
| CARLISLE BARRACKS         | 0.94        | 0.95    |
| INDIANTOWN GAP MR         | 1.01        | 1.02    |
| LETTERKENNY ARMY DEPOT    | 0.93        | 0.94    |
| MECHANICSBURG AREA        | 0.94        | 0.95    |
| NEW CUMBERLAND ARMY DEPOT | 0.94        | 0.95    |
| TOBYHANNA ARMY DEPOT      | 1.12        | 1.14    |
| WARMINSTER                | 1.09        | 1.15    |
| WILLOW GROVE              | 1.09        | 1.15    |
| <b>RHODE ISLAND</b>       | <b>1.13</b> | 1.16    |
| NEWPORT                   | 1.16        | 1.19    |
| PROVIDENCE                | 1.10        | 1.13    |
| <b>SOUTH CAROLINA</b>     | <b>0.87</b> | 0.84    |
| CHARLESTON                | 0.90        | 0.87    |
| COLUMBIA                  | 0.84        | 0.81    |
| BEAUFORT AREA             | 1.09        | 1.06    |
| CHARLESTON AIR FORCE BASE | 0.90        | 0.87    |
| FORT JACKSON              | 0.84        | 0.81    |
| GOOSE CREEK               | 0.90        | 0.87    |

| Inside US                         | MILCON      | sustain |
|-----------------------------------|-------------|---------|
| SHAW AIR FORCE BASE               | 0.90        | 0.87    |
| <b>SOUTH DAKOTA</b>               | <b>1.00</b> | 0.96    |
| RAPID CITY                        | 1.01        | 0.97    |
| SIOUX FALLS                       | 0.98        | 0.95    |
| ELLSWORTH AIR FORCE BASE          | 1.01        | 0.97    |
| <b>TENNESSEE</b>                  | <b>0.83</b> | 0.82    |
| CHATTANOOGA                       | 0.82        | 0.80    |
| MEMPHIS                           | 0.84        | 0.83    |
| ARNOLD AIR FORCE BASE             | 0.89        | 0.87    |
| MILLINGTON NAVAL SUPPORT ACTIVITY | 0.84        | 0.83    |
| VOLUNTEER ORDINANCE WORKS         | 0.82        | 0.80    |
| <b>TEXAS</b>                      | <b>0.89</b> | 0.86    |
| SAN ANGELO                        | 0.83        | 0.80    |
| SAN ANTONIO                       | 0.95        | 0.92    |
| BROOKS AIR FORCE BASE             | 0.95        | 0.92    |
| CAMP BULLIS                       | 0.95        | 0.92    |
| CG - HOUSTON                      | 0.91        | 0.90    |
| CORPUS CHRISTI AREA               | 0.87        | 0.84    |
| DALLAS                            | 0.87        | 0.86    |
| DYESS AIR FORCE BASE              | 0.93        | 0.89    |
| FORT BLISS                        | 1.08        | 1.05    |
| FORT HOOD                         | 0.91        | 0.89    |
| FORT SAM HOUSTON                  | 0.95        | 0.92    |
| FORT WORTH                        | 0.91        | 0.90    |
| GOODFELLOW AIR FORCE BASE         | 0.94        | 0.91    |
| INGLESIDE NAVAL STATION           | 0.91        | 0.88    |
| KELLY FIELD                       | 0.95        | 0.92    |
| KINGSVILLE AREA                   | 0.91        | 0.88    |
| LACKLAND AIR FORCE BASE           | 0.95        | 0.92    |
| LAUGHLIN AIR FORCE BASE           | 0.93        | 0.91    |
| LONE STAR ARMY AMMO PLANT         | 0.88        | 0.86    |
| LONGHORN ARMY AMMO PLANT          | 0.84        | 0.81    |
| RANDOLPH AIR FORCE BASE           | 0.95        | 0.92    |
| RED RIVER ARMY DEPOT              | 0.88        | 0.86    |
| REESE AIR FORCE BASE              | 0.90        | 0.87    |
| SHEPPARD AIR FORCE BASE           | 0.94        | 0.92    |
| <b>UTAH</b>                       | <b>1.03</b> | 1.00    |

| Inside US               | MILCON      | sustain |
|-------------------------|-------------|---------|
| OGDEN                   | 1.00        | 0.98    |
| SALT LAKE CITY          | 1.05        | 1.02    |
| DUGWAY PROVING GROUND   | 1.10        | 1.08    |
| FORT DOUGLAS            | 1.05        | 1.02    |
| HILL AIR FORCE BASE     | 1.08        | 1.06    |
| TOOELE ARMY DEPOT       | 1.10        | 1.08    |
| <b>VERMONT</b>          | <b>0.92</b> | 0.89    |
| BURLINGTON              | 0.91        | 1.00    |
| MONTPELIER              | 0.93        | 0.90    |
| <b>VIRGINIA</b>         | <b>0.92</b> | 0.90    |
| NORFOLK                 | 0.94        | 0.92    |
| RICHMOND                | 0.90        | 0.88    |
| CAMP PEARY              | 0.94        | 0.92    |
| CHESAPEAKE              | 0.94        | 0.92    |
| DAHLGREN                | 0.96        | 0.95    |
| FORT A. P. HILL         | 0.96        | 0.95    |
| FORT BELVOIR            | 1.02        | 1.03    |
| FORT EUSTIS             | 0.94        | 0.92    |
| FORT LEE                | 0.92        | 0.90    |
| FORT MONROE             | 0.94        | 0.92    |
| FORT MYER               | 1.02        | 1.02    |
| FORT PICKETT            | 0.92        | 0.90    |
| FORT STORY              | 0.94        | 0.92    |
| LANGLEY AIR FORCE BASE  | 0.94        | 0.92    |
| QUANTICO                | 1.02        | 1.02    |
| RADFORD ARMY AMMO PLANT | 0.93        | 0.91    |
| VINT HILL FARMS         | 0.96        | 0.95    |
| WALLOPS ISLAND          | 1.05        | 1.01    |
| YORKTOWN                | 0.94        | 0.92    |
| <b>WASHINGTON</b>       | <b>1.12</b> | 1.13    |
| SPOKANE                 | 1.05        | 1.05    |
| TACOMA                  | 1.19        | 1.20    |
| BANGOR                  | 1.25        | 1.01    |
| BREMERTON               | 1.25        | 1.27    |
| CG - PORT ANGELES       | 1.24        | 1.25    |
| CG - SEATTLE            | 1.17        | 1.19    |
| EVERETT                 | 1.12        | 1.14    |

| Inside US                       | MILCON      | sustain |
|---------------------------------|-------------|---------|
| FAIRCHILD AIR FORCE BASE        | 1.05        | 1.05    |
| FORT LEWIS                      | 1.19        | 1.20    |
| INDIAN ISLAND                   | 1.25        | 1.27    |
| KEYPORT                         | 1.26        | 1.27    |
| MCCHORD AIR FORCE BASE          | 1.19        | 1.20    |
| SILVERDALE                      | 1.24        | 1.26    |
| WHIDBEY ISLAND                  | 1.32        | 1.33    |
| YAKIMA FIRING RANGE             | 1.09        | 1.08    |
| <b>WASHINGTON DC</b>            | <b>1.02</b> | 1.03    |
| BOLLING AIR FORCE BASE          | 1.02        | 1.03    |
| FORT MCNAIR                     | 1.02        | 1.03    |
| Walter Reed Army Medical Center | 1.02        | 1.03    |
| <b>WEST VIRGINIA</b>            | <b>0.89</b> | 0.90    |
| BLUEFIELD                       | 0.87        | 0.88    |
| CHARLESTON                      | 0.91        | 0.87    |
| SUGAR GROVE                     | 1.28        | 1.29    |
| <b>WISCONSIN</b>                | <b>1.07</b> | 1.09    |
| MADISON                         | 1.04        | 1.06    |
| MILWAUKEE                       | 1.09        | 1.12    |
| BADGER ARMY AMMO PLANT          | 1.11        | 1.13    |
| CG - STURGEON BAY               | 1.19        | 1.19    |
| FORT MCCOY                      | 1.08        | 1.11    |
| <b>WYOMING</b>                  | <b>0.99</b> | 0.96    |
| CASPER                          | 0.95        | 0.91    |
| CHEYENNE                        | 1.04        | 1.00    |
| F E WARREN AIR FORCE BASE       | 1.04        | 1.00    |

| Outside US         | MILCON      | sustain | Currency<br>exch rate |
|--------------------|-------------|---------|-----------------------|
| <b>AFGHANISTAN</b> | <b>1.46</b> | 1.34    |                       |
| KUBUL              | 1.46        | 1.34    |                       |
| AFGHANI            |             |         | 47.9200               |
| <b>ALBANIA</b>     | <b>0.84</b> | 0.77    |                       |
| TIRANA             | 0.84        | 0.77    |                       |
| ALBANIAN LEKE      |             |         | 97.8700               |
| <b>ALGERIA</b>     | <b>1.17</b> | 1.06    |                       |

| Outside US            | MILCON      | sustain | Currency<br>exch rate |
|-----------------------|-------------|---------|-----------------------|
| ALGIERS               | 1.17        | 1.06    |                       |
| ALGERIA DINAR         |             |         | 72.2122               |
| <b>AMERICAN SAMOA</b> | <b>2.17</b> | 2.06    |                       |
| AMERICAN SAMOA        | 2.17        | 2.06    |                       |
| US DOLLAR             |             |         | 1.0000                |
| <b>ANTIGUA</b>        | <b>1.87</b> | 1.75    |                       |
| ANTIGUA               | 1.87        | 1.75    |                       |
| ANTIGUA DOLLAR        |             |         | 2.6150                |
| <b>AUSTRALIA</b>      | <b>1.25</b> | 1.22    |                       |
| PERTH                 | 1.25        | 1.22    |                       |
| AUSTRALIAN DOLLAR     |             |         | 1.1053                |
| <b>AZERBAIJAN</b>     | <b>0.94</b> | 0.86    |                       |
| BAKU                  | 0.94        | 0.86    |                       |
| MANAT                 |             |         | 0.8028                |
| <b>AZORES</b>         | <b>1.54</b> | 1.50    |                       |
| LAJES                 | 1.54        | 1.50    |                       |
| EURO                  |             |         | 0.7212                |
| <b>BAHAMAS</b>        | <b>1.61</b> | 1.53    |                       |
| ANDROS ISLAND         | 1.61        | 1.53    |                       |
| BAHAMA DOLLAR         |             |         | 1.0000                |
| <b>BAHRAIN</b>        | <b>1.25</b> | 1.17    |                       |
| ASKAR                 | 1.25        | 1.17    |                       |
| BAHRAINI DINAR        |             |         | 0.3770                |
| <b>BELGIUM</b>        | <b>1.13</b> | 1.10    |                       |
| BRUSSELS              | 1.15        | 1.13    |                       |
| MONS/CHIEVERES        | 1.11        | 1.08    |                       |
| EURO                  |             |         | 0.7212                |
| <b>BOSNIA</b>         | <b>0.96</b> | 0.94    |                       |
| SARAJEVO              | 0.96        | 0.94    |                       |
| MARKA                 |             |         | 1.3824                |
| <b>BULGARIA</b>       | <b>1.13</b> | 1.02    |                       |
| SOFIA                 | 1.13        | 1.02    |                       |
| LEV                   |             |         | 1.3824                |
| <b>CAMBODIA</b>       | <b>1.59</b> | 1.43    |                       |
| PHNOM PENH            | 1.59        | 1.43    |                       |
| RIEL                  |             |         | 4155.0000             |

| Outside US              | MILCON      | sustain | Currency<br>exch rate |
|-------------------------|-------------|---------|-----------------------|
| <b>CANADA</b>           | <b>1.24</b> | 1.19    |                       |
| ARGENTIA/NEWFOUNDLAND   | 1.24        | 1.19    |                       |
| CANADIAN DOLLAR         |             |         | 1.0581                |
| <b>CHINA</b>            | <b>1.68</b> | 1.54    |                       |
| HONG KONG               | 1.68        | 1.54    |                       |
| YUAN                    |             |         | 6.8279                |
| <b>CRETE</b>            | <b>1.24</b> | 1.13    |                       |
| SOUDA BAY               | 1.24        | 1.13    |                       |
| EURO                    |             |         | 0.7212                |
| <b>CROATIA</b>          | <b>1.04</b> | 1.00    |                       |
| ZAGREB                  | 1.04        | 1.00    |                       |
| LEV                     |             |         | 1.3824                |
| <b>CUBA</b>             | <b>1.50</b> | 1.37    |                       |
| GUANTANAMO              | 1.50        | 1.37    |                       |
| US DOLLAR               |             |         | 1.0000                |
| <b>CZECH REPUBLIC</b>   | <b>0.95</b> | 0.90    |                       |
| PRAGUE                  | 0.95        | 0.90    |                       |
| CZECH KORUNY            |             |         | 18.3817               |
| <b>DIEGO GARCIA</b>     | <b>2.52</b> | 2.34    |                       |
| DIEGO GARCIA            | 2.52        | 2.34    |                       |
| US DOLLAR               |             |         | 1.0000                |
| <b>EGYPT</b>            | <b>1.33</b> | 1.25    |                       |
| CAIRO                   | 1.33        | 1.25    |                       |
| EGYPTIAN POUND          |             |         | 5.4450                |
| <b>ESTONIA</b>          | <b>1.01</b> | 0.93    |                       |
| TALLINN                 | 1.01        | 0.93    |                       |
| EURO                    |             |         | 11.0618               |
| <b>FRANCE</b>           | <b>1.19</b> | 1.11    |                       |
| MARCEILLE               | 1.19        | 1.11    |                       |
| EURO                    |             |         | 0.7212                |
| <b>GEORGIA REPUBLIC</b> | <b>0.97</b> | 0.92    |                       |
| TBILISI                 | 0.97        | 0.92    |                       |
| GEORGIA LARI            |             |         | 1.7202                |
| <b>GERMANY</b>          | <b>1.14</b> | 1.09    |                       |
| FRANKFURT               | 1.20        | 1.15    |                       |
| GRAFENWOEHR/HOHENFELS   | 1.09        | 1.03    |                       |

| Outside US            | MILCON      | sustain | Currency<br>exch rate |
|-----------------------|-------------|---------|-----------------------|
| KAISERSLAUTERN        | 1.14        | 1.09    |                       |
| EURO                  |             |         | 0.7212                |
| <b>GREECE</b>         | <b>1.12</b> | 1.08    |                       |
| ATHENS                | 1.12        | 0.83    |                       |
| EURO                  |             |         | 0.7212                |
| <b>GREENLAND</b>      | <b>2.81</b> | 2.65    |                       |
| THULE                 | 2.81        | 2.65    |                       |
| DANISH KRONE          |             |         | 5.3735                |
| <b>GUAM</b>           | <b>2.64</b> | 2.56    |                       |
| GUAM                  | 2.64        | 2.56    |                       |
| US DOLLAR             |             |         | 1.0000                |
| <b>HORN OF AFRICA</b> | <b>2.00</b> | 1.79    |                       |
| DJIBOUTI              | 2.00        | 1.79    |                       |
| DJIBOUTIAN FRANC      |             |         | 157.0000              |
| <b>HUNGARY</b>        | <b>0.98</b> | 0.90    |                       |
| BUDAPEST              | 0.98        | 0.90    |                       |
| HUNGARIAN FORINT      |             |         | 192.6280              |
| <b>ICELAND</b>        | <b>1.91</b> | 1.90    |                       |
| REYKJAVIK             | 1.91        | 1.90    |                       |
| KRONE                 |             |         | 85.2358               |
| <b>INDIA</b>          | <b>1.40</b> | 1.34    |                       |
| NEW DELHI             | 1.40        | 1.34    |                       |
| INDIAN RUPEE          |             |         | 46.0852               |
| <b>INDONESIA</b>      | <b>1.06</b> | 0.98    |                       |
| JAKARTA               | 1.06        | 0.98    |                       |
| INDONESIAN RUPIAH     |             |         | 12859.7900            |
| <b>IRAQ</b>           | <b>1.70</b> | 1.56    |                       |
| BAGHDAD               | 1.70        | 1.56    |                       |
| IRAQI DINAR           |             |         | 1153.5000             |
| <b>IRELAND</b>        | <b>1.10</b> | 1.10    |                       |
| DUBLIN                | 1.10        | 1.10    |                       |
| EURO                  |             |         | 0.7212                |
| <b>ISRAEL</b>         | <b>1.20</b> | 1.15    |                       |
| TEL AVIV              | 1.20        | 1.15    |                       |
| SHEKELS               |             |         | 3.7213                |
| <b>ITALY</b>          | <b>1.31</b> | 1.32    |                       |

| Outside US         | MILCON      | sustain | Currency<br>exch rate |
|--------------------|-------------|---------|-----------------------|
| AVIANO             | 1.27        | 1.28    |                       |
| GAETA              | 1.20        | 1.21    |                       |
| NAPLES             | 1.36        | 1.37    |                       |
| SIGONELLA          | 1.30        | 1.32    |                       |
| VICENZA            | 1.41        | 1.43    |                       |
| EURO               |             |         | 0.7212                |
| <b>JAPAN</b>       | <b>1.49</b> | 1.40    |                       |
| ATSUGI             | 1.49        | 1.39    |                       |
| IWAKUNI            | 1.49        | 1.38    |                       |
| MISAWA             | 1.48        | 1.38    |                       |
| OKINAWA            | 1.42        | 1.31    |                       |
| TOKYO              | 1.59        | 1.56    |                       |
| YOKOSUKA           | 1.47        | 1.37    |                       |
| YEN                |             |         | 101.9517              |
| <b>JORDAN</b>      | <b>1.18</b> | 1.08    |                       |
| AMMAN              | 1.18        | 1.08    |                       |
| Jordan Dinars      |             |         | 0.7083                |
| <b>SOUTH KOREA</b> | <b>1.06</b> | 0.99    |                       |
| DMZ AREA           | 1.17        | 1.09    |                       |
| KUNSAN             | 1.06        | 0.98    |                       |
| OSAN               | 1.04        | 0.96    |                       |
| PUSAN              | 1.04        | 0.97    |                       |
| PYONGTAEK          | 1.04        | 0.98    |                       |
| SEOUL              | 1.02        | 0.95    |                       |
| TAEGU              | 1.04        | 0.96    |                       |
| TONG DU CHON       | 1.05        | 0.98    |                       |
| SOUTH KOREAN WON   |             |         | 1149.5059             |
| <b>KOSOVO</b>      | <b>0.93</b> | 0.87    |                       |
| PRISTINA           | 0.93        | 0.87    |                       |
| EURO               |             |         | 0.7212                |
| <b>KUWAIT</b>      | <b>1.42</b> | 1.30    |                       |
| KUWAIT CITY        | 1.42        | 1.30    |                       |
| DINAR              |             |         | 0.2872                |
| <b>KWAJALEIN</b>   | <b>2.72</b> | 2.58    |                       |
| KWAJALEIN          | 2.72        | 2.58    |                       |
| US DOLLAR          |             |         | 1.0000                |

| Outside US               | MILCON      | sustain | Currency<br>exch rate |
|--------------------------|-------------|---------|-----------------------|
| <b>LATVIA</b>            | <b>0.93</b> | 0.87    |                       |
| RIGA                     | 0.93        | 0.87    |                       |
| LATVIAN LAT              |             |         | 0.5007                |
| <b>LEBANON</b>           | <b>1.14</b> | 1.04    |                       |
| BEIRUT                   | 1.14        | 1.04    |                       |
| Lebanon Pound            |             |         | 1504.5000             |
| <b>LITHUANIA</b>         | <b>0.94</b> | 0.89    |                       |
| VILNIUS                  | 0.94        | 0.89    |                       |
| LITHUANIAN LITAS         |             |         | 2.4406                |
| <b>MIDWAY ISLAND</b>     | <b>2.16</b> | 2.03    |                       |
| MIDWAY ISLAND            | 2.16        | 2.03    |                       |
| US DOLLAR                |             |         | 1.0000                |
| <b>MOROCCO</b>           | <b>0.88</b> | 0.80    |                       |
| CASABLANCA               | 0.88        | 0.80    |                       |
| DIRHAM                   |             |         | 7.9797                |
| <b>NETHERLANDS</b>       | <b>1.05</b> | 1.02    |                       |
| OSS                      | 1.05        | 1.02    |                       |
| EURO                     |             |         | 0.7212                |
| <b>NEW ZEALAND</b>       | <b>1.24</b> | 1.09    |                       |
| WELLINGTON               | 1.24        | 1.09    |                       |
| NEW ZEALAND DOLLAR       |             |         | 1.4000                |
| <b>NORTHERN MARIANAS</b> | <b>1.92</b> | 1.88    |                       |
| SAIPAN                   | 1.92        | 1.88    |                       |
| US DOLLAR                |             |         | 1.0000                |
| <b>NORWAY</b>            | <b>1.40</b> | 1.33    |                       |
| OSLO                     | 1.40        | 1.33    |                       |
| NORWEGIAN KRONER         |             |         | 6.1288                |
| <b>OMAN</b>              | <b>1.23</b> | 1.13    |                       |
| RUWI                     | 1.23        | 1.13    |                       |
| RILOMANI                 |             |         | 0.3851                |
| <b>PANAMA</b>            | <b>1.14</b> | 1.04    |                       |
| PANAMA CITY              | 1.14        | 0.84    |                       |
| US DOLLAR                |             |         | 1.0000                |
| <b>PHILIPPINES</b>       | <b>1.01</b> | 0.91    |                       |
| SUBIC BAY                | 1.01        | 0.91    |                       |
| PHILIPPINE PESO          |             |         | 46.2300               |

| Outside US               | MILCON      | sustain | Currency<br>exch rate |
|--------------------------|-------------|---------|-----------------------|
| <b>POLAND</b>            | <b>0.85</b> | 0.78    |                       |
| WARSAW                   | 0.85        | 0.78    |                       |
| ZLOTYCH                  |             |         | 2.8741                |
| <b>PORTUGAL</b>          | <b>1.08</b> | 0.96    |                       |
| LISBON                   | 1.08        | 0.96    |                       |
| EURO                     |             |         | 0.7212                |
| <b>PUERTO RICO</b>       | <b>1.22</b> | 1.16    |                       |
| SAN JUAN                 | 1.22        | 1.16    |                       |
| US DOLLAR                |             |         | 1.0000                |
| <b>QATAR</b>             | <b>1.35</b> | 1.25    |                       |
| DOHA                     | 1.35        | 1.25    |                       |
| RIYAL                    |             |         | 3.6412                |
| <b>ROMANIA</b>           | <b>0.90</b> | 0.84    |                       |
| BUCHAREST                | 0.90        | 0.84    |                       |
| ROMANIAN LEI             |             |         | 2.9636                |
| <b>SAUDI ARABIA</b>      | <b>1.19</b> | 1.06    |                       |
| RIYADH                   | 1.19        | 1.06    |                       |
| SAUDI RIYAL              |             |         | 3.7502                |
| <b>SEYCHELLES ISLAND</b> | <b>1.87</b> | 1.70    |                       |
| SEYCHELLES ISLAND        | 1.87        | 1.70    |                       |
| US DOLLAR                |             |         | 1.0000                |
| <b>SINGAPORE</b>         | <b>1.57</b> | 1.52    |                       |
| SINGAPORE CITY           | 1.57        | 1.52    |                       |
| SINGAPORE DOLLAR         |             |         | 1.4659                |
| <b>SPAIN</b>             | <b>1.17</b> | 1.10    |                       |
| MORON                    | 1.17        | 1.11    |                       |
| ROTA                     | 1.17        | 1.10    |                       |
| EURO                     |             |         | 0.7212                |
| <b>THAILAND</b>          | <b>0.98</b> | 0.92    |                       |
| BANGKOK                  | 0.97        | 0.90    |                       |
| CHANG RAI                | 1.00        | 0.93    |                       |
| KORAT                    | 0.99        | 0.92    |                       |
| BAHT                     |             |         | 33.1230               |
| <b>TURKEY</b>            | <b>0.99</b> | 0.91    |                       |
| ANKARA                   | 0.99        | 0.91    |                       |
| INCIRLICK                | 0.98        | 0.90    |                       |

| Outside US                  | MILCON      | sustain | Currency<br>exch rate |
|-----------------------------|-------------|---------|-----------------------|
| TURKEY LIRE                 |             |         | 1.3678                |
| <b>UKRAINE</b>              | <b>0.87</b> | 0.80    |                       |
| KIEV                        | 0.87        | 0.80    |                       |
| HRYVNIA                     |             |         | 8.0055                |
| <b>UNITED ARAB EMIRATES</b> | <b>1.22</b> | 1.10    |                       |
| DUBAI                       | 1.22        | 1.10    |                       |
| DIRHAM                      |             |         | 3.6728                |
| <b>UNITED KINGDOM</b>       | <b>1.13</b> | 1.07    |                       |
| FAIRFORD/CROUGHTON          | 1.11        | 1.04    |                       |
| LAKENHEATH                  | 1.09        | 1.03    |                       |
| MENWITH HILL                | 1.10        | 1.07    |                       |
| MILDENHALL                  | 1.14        | 1.07    |                       |
| ST. MAWGAN                  | 1.21        | 1.13    |                       |
| WEST RUISLIP                | 1.15        | 1.08    |                       |
| BRITISH POUND               |             |         | 0.5767                |
| <b>VIRGIN ISLANDS</b>       | <b>1.37</b> | 1.37    |                       |
| ST. THOMAS                  | 1.37        | 1.37    |                       |
| US DOLLAR                   |             |         | 1.0000                |
| <b>WAKE ISLAND</b>          | <b>2.16</b> | 2.07    |                       |
| WAKE ISLAND                 | 2.16        | 2.07    |                       |
| US DOLLAR                   |             |         | 1.0000                |

## 4-2 ESCALATION

Tables 4-2, 4-3, and 4-4 provide escalation (inflation) factors used to adjust unit costs in Tables 2-1 and 3-1 (expressed in base-year dollars) to the desired year, as follows:

### 4-2.1 Military Construction

Military construction project estimates that use unit costs from Table 2-1 should use the military construction escalation factor from table 4-2 for the expected midpoint of construction as described in UFC 3-700-01A.

**Table 4-2: Military Construction Escalation Rates**

| Historical |                               |                     | Budget Guidance |                                    | Projected                      |                               |
|------------|-------------------------------|---------------------|-----------------|------------------------------------|--------------------------------|-------------------------------|
| Month-Year | ENR Indices (raw)<br>(Note 1) | DoD SPI<br>(Note 2) | FY              | Annual escalation rate<br>(Note 3) | Midpoint of constr<br>(Note 4) | Escalation factor<br>(Note 5) |
| Oct-02     | 3651                          |                     |                 |                                    |                                |                               |
| Oct-03     | 3745                          |                     |                 |                                    |                                |                               |
| Oct-04     | 4129                          |                     |                 |                                    |                                |                               |
| Oct-05     | 4265                          |                     |                 |                                    |                                |                               |
| Oct-06     | 4431                          |                     |                 |                                    |                                |                               |
| Oct-07     | 4535                          | 100.00              |                 |                                    |                                |                               |
| Oct-08     |                               | 104.89              |                 |                                    |                                |                               |
| Oct-09     |                               | 98.32               |                 |                                    | Oct-09                         | <b>1.0000</b>                 |
|            |                               |                     | 2010            | 1.20%                              | Oct-10                         | <b>1.0120</b>                 |
|            |                               |                     | 2011            | 1.50%                              | Oct-11                         | <b>1.0272</b>                 |
|            |                               |                     | 2012            | 1.70%                              | Oct-12                         | <b>1.0447</b>                 |
|            |                               |                     | 2013            | 1.70%                              | Oct-13                         | <b>1.0625</b>                 |
|            |                               |                     | 2014            | 1.70%                              | Oct-14                         | <b>1.0806</b>                 |
|            |                               |                     | 2015            | 1.70%                              | Oct-15                         | <b>1.0990</b>                 |
|            |                               |                     | 2016            | 1.70%                              | Oct-16                         | <b>1.1177</b>                 |

Note 1: The historical index through October 2007 is the Engineering News Record Building Construction Index (ENR BCI).

Note 2: The historical index from October 2007 is the DoD Selling Price Index (SPI), representing the average of the RLB Construction Cost Index, Turner Construction Cost Index, and Saylor Subcontracting Index. DoD established the SPI to more accurately represent actual (historical) market escalation as experienced by DoD as the project owner for the type of construction in the portfolio. Previously, DoD used the Engineering News Record Building Cost Index (BCI). The BCI tracks the cost of three basic materials and one skilled labor type, but does not account for other pricing influences (such as risk and competition) that impact total delivered price to the project owner.

Note 3: Annual rates for military construction budget authority published by USD (Comptroller) in December 2009.

Note 4: Midpoint of construction is the assumed month and year when the contractor will have earned 50% of the estimated contract value. Interpolate between published escalation factors as necessary.

Note 5: The escalation factor is the cumulative (compounded) annual inflation rate from the base year. Use these factors to escalate project estimates using unit costs in Table 2-1 to the expected midpoint of construction, in accordance with UFC 3-700-01A.

#### 4-2.2 Plant Replacement Value Escalation Rates

Plant Replacement Value (PRV) calculations that use replacement unit costs from Table 3-1 should use the escalation factor from table 4-3 for the desired program year.

**Table 4-3: PRV Escalation Rates**

| Projected    |                               |                               |
|--------------|-------------------------------|-------------------------------|
| Program Year | Escalation factor<br>(Note 1) |                               |
|              | Vertical constr<br>(Note 2)   | Horizontal constr<br>(Note 3) |
| 2010         | 101.00                        | 102.50                        |
| 2011         | 103.64                        | 106.09                        |
| 2012         | 107.79                        | 111.04                        |
| 2013         | 112.33                        | 116.42                        |
| 2014         | 118.07                        | 121.65                        |
| 2015         | 124.99                        | 128.60                        |

Note 1: Escalation factors for construction published by Davis Langdon in April 2010<sup>12</sup>.

Note 2: Use these factors to adjust plant replacement value of vertical construction to future years.

Note 3: Use these factors to adjust plant replacement value of horizontal construction to future years.

#### 4-2.3 Facilities Sustainment and Operation

Modeled facilities sustainment and operation cost estimates that use unit costs from Table 3-1 should use the O&M escalation factor from table 4-4 for the desired program year.

<sup>12</sup> Davis Langdon report, "U.S. Army Corps of Engineers Market Analysis and Inflation Outlook," April 1, 2010.



**Table 4-4: Operation and Maintenance Escalation Rates**

| Budget Guidance |                                    | Projected    |                               |
|-----------------|------------------------------------|--------------|-------------------------------|
| FY              | Annual escalation rate<br>(Note 1) | Program Year | Escalation factor<br>(Note 2) |
| 2010            | 1.10%                              | 2010         | <b>1.0000</b>                 |
| 2011            | 1.40%                              | 2011         | <b>1.0110</b>                 |
| 2012            | 1.70%                              | 2012         | <b>1.0252</b>                 |
| 2013            | 1.70%                              | 2013         | <b>1.0426</b>                 |
| 2014            | 1.70%                              | 2014         | <b>1.0603</b>                 |
| 2015            | 1.70%                              | 2015         | <b>1.0783</b>                 |
| 2016            | 1.70%                              | 2016         | <b>1.0966</b>                 |

Note 1: Annual rates for O&M budget authority published by USD (Comptroller) in December 2009.

Note 2: Use these factors to adjust sustainment and operation costs to future years.