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USACE / NAVFAC / AFCEA / NASA      UFGS-01 11 00 (July 2006)  
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Preparing Activity:    NAVFAC      Superseding  
   UFGS-01 11 00 (April 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 18 July 2006

Revised throughout - latest change not indicated by CHG tags

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## SECTION 01 11 00

### SUMMARY OF WORK 07/06

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NOTE: This guide specification covers the requirements for a description of work covered in this contract and is required for use in all projects.

Comments and suggestions on this guide specification are welcome and should be directed to the technical proponent of the specification. A listing of technical proponents, including their organization designation and telephone number, is on the Internet.

Recommended changes to a UFGS should be submitted as a Criteria Change Request (CCR).

Use of electronic communication is encouraged.

This guide specification includes tailoring options for EFD and EFA regional requirements. Selection or deselection of a tailoring option will include or exclude that option in the section, but editing the resulting section to fit the project is still required.

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.

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NOTE: When using this section, a Project Information Form should be filled out for the Contract Specialist. This form is available from the Construction Criteria Base website at <http://www.ccb.org>. The form is found in the Specification Library, NAVFAC Specifications Category, Project Information Form. For SOUTHNAVFANCENCOM projects, do not use this Project Information Form.

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NOTE: Include on the drawing:

1. Location of project.
2. Limits of contractor's work area.
3. Location of Government-furnished work.
4. Location of Government installed work.
5. Contractor's on-base route to site.

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NOTE: See "FAC 5252.211-9301, Phased Construction Schedule."

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## PART 1 GENERAL

### 1.1 REFERENCES

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NOTE: Issue (date) of references included in project specifications need not be more current than provided by the latest guide specification. Use of SpecsIntact automated reference checking is recommended for projects based on older guide specifications.

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The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

#### ASTM INTERNATIONAL (ASTM)

ASTM E 2114 (2000; R 2005) Standard Terminology for Sustainability Relative to the Performance of Buildings

#### GREEN BUILDING INITIATIVE (GBI)

Green Globes (2004) Green Globes(tm) US Green Building Rating System

#### U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)

Energy Star (1992; R 2006) Energy Star Energy Efficiency Labeling System

#### U.S. GREEN BUILDING COUNCIL (USGBC)

LEED (2002; R 2005) Leadership in Energy and Environmental Design(tm) Green Building Rating System for New Construction (LEED-NC)

## 1.2 DEFINITIONS

Definitions pertaining to sustainable development are as defined in ASTM E 2114, [Section 01 35 40.00 20 ENVIRONMENTAL MANAGEMENT] [Section 01355A ENVIRONMENTAL PROTECTION], and as specified.

- a. "Environmentally preferable products" have a lesser or reduced effect on the environment in comparison to conventional products and services. This comparison may consider raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, or disposal of the product.
- b. "Indoor environmental quality" is the physical characteristics of the building interior that impact occupants, including air quality, illumination, acoustics, occupant control, thermal comfort, daylighting, and views.
- c. "Operational performance" is the functional behavior of the building as a whole or of the building components.
- d. "Sustainability" is the balance of environmental, economic, and societal considerations.

## 1.3 SUBMITTALS

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NOTE: Submittals must be limited to those necessary for adequate quality control. The importance of an item in the project should be one of the primary factors in determining if a submittal for the item should be required.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy projects.

Submittal items not designated with a "G" are considered as being for information only for Army projects and for Contractor Quality Control approval

for Navy projects.

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Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for [Contractor Quality Control approval.] [information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

[ SD-07 Certificates

Energy Performance Rating]

#### 1.4 WORK COVERED BY CONTRACT DOCUMENTS

##### 1.4.1 Project Description

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NOTE: Describe the project and the types of work involved in sufficient detail so as to present a general picture which is self contained but does not refer to the drawings or to other parts of the specification. Mention peculiar or hazardous work, and monitoring of archaeological resources. Do not provide quantities in the description.

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The work includes [\_\_\_\_\_] and incidental related work.

##### 1.4.2 Location

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NOTE: Include station name and geographic location in the blank provided.

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The work shall be located at the [\_\_\_\_\_] , approximately as indicated. The exact location will be shown by the Contracting Officer.

#### 1.5 PROJECT ENVIRONMENTAL GOALS

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NOTE: Project environmental goals cannot be enforced, but are identified here to guide contractor means and methods, which may have significant environmental impacts. Additionally, it may help the Contractor propose alternatives that are consistent with the project environmental goals.

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Contractor shall distribute copies of the Environmental Goals to each subcontractor and the Contracting Officer. The overall goal for design, construction, and operation is to produce a building that meets the functional program needs and incorporates the principles of sustainability. Specifically:

- a. Preserve and restore the site ecosystem and biodiversity; avoid site degradation and erosion. Minimize offsite environmental impact.

- b. Use the minimum amount of energy, water, and materials feasible to meet the design intent. Select energy and water efficient equipment and strategies.
- c. Use environmentally preferable products and decrease toxicity level of materials used.
- d. Use renewable energy and material resources.
- e. Optimize operational performance (through commissioning efforts) in order to ensure energy efficient equipment operates as intended. Consider the durability, maintainability, and flexibility of building systems.
- f. Manage construction site and storage of materials to ensure no negative impact on the indoor environmental quality of the building.
- g. Reduce construction waste through reuse, recycling, and supplier take-back.

#### 1.5.1 Independent Verification

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 NOTE: There are multiple ways of certifying green buildings.  
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 NOTE: Army projects shall use the LEED rating system - include the following paragraph and delete other independent verification systems.  
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##### [1.5.1.1 US Green Building Council (USGBC) - LEED(tm) Rating System

Provide [completed project in compliance] [work consistent] with USGBC LEED-NC(tm) [v2.2] [\_\_\_\_\_] (LEED), level [certified] [silver] [gold] [platinum] requirements.

##### ] [1.5.1.2 Green Globes US

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 NOTE: Green Globes US is the newest addition to the BREEAM/Green Leaf suite of environmental assessment tools. BREEAM (BRE Environmental Assessment Method) is one of the world's most widely used means of reviewing and improving the environmental performance of buildings.  
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Provide [completed project in compliance] [work consistent] with Green Globes US level [Two Globes] [Three Globes] [\_\_\_\_\_] requirements.

##### ] [1.5.1.3 EPA Energy Performance Rating

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 NOTE: Determine the energy use target rating that meets or exceeds Energy Star. Provide Energy Star

target using EPA Target Finder. Use Target Finder to rate estimated energy use for the completed design. If design achieves a rating of 75 or higher, provide Statement of Energy Design Intent (SEDI) generated from Target Finder to document results. Contracting Officer shall submit the SEDI to EPA and will receive the "Designed to Earn the Energy Star" graphic to place on drawings to show that the energy use for the design meets EPA criteria for energy efficiency. Include the following paragraph if graphic has been earned.

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Provide work consistent with drawings in order to meet Energy Star in accordance with design.

#### ] [1.6 EXISTING WORK

In addition to "FAR 52.236-9, Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements":

- a. Remove or alter existing work in such a manner as to prevent injury or damage to any portions of the existing work which remain.
- b. Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as approved by the Contracting Officer. At the completion of operations, existing work shall be in a condition equal to or better than that which existed before new work started.

#### ] [1.7 LOCATION OF UNDERGROUND FACILITIES

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NOTE: For projects at Pearl Harbor Shipyard, include the bracketed option for Ground Penetrating Radar.

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[Obtain digging permits prior to start of excavation by contacting the Contracting Officer [15] [\_\_\_\_] calendar days in advance.] [Scan the construction site with [Ground Penetrating Radar and] electromagnetic or sonic equipment, and mark the surface of the ground[, pier deck or paved surface] where existing underground utilities [or utilities encased in pier structures] are discovered. Verify the elevations of existing piping, utilities, and any type of underground [or encased] obstruction not indicated to be specified or removed but indicated or discovered during scanning in locations to be traversed by piping, ducts, and other work to be conducted or installed.] [Verify elevations before installing new work closer than nearest manhole or other structure at which an adjustment in grade can be made.]

##### 1.7.1 Notification Prior to Excavation

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NOTE: For projects in the Tidewater, Virginia area, use 15 days and include the bracketed sentence.

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Notify the Contracting Officer at least [48 hours] [15 days] prior to starting excavation work. [Contact Miss Utility 48 hours prior to excavating. Contractor is responsible for marking all utilities not marked by Miss Utility.]

] [1.8 GOVERNMENT-FURNISHED MATERIAL AND EQUIPMENT

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NOTE: There are situations in which equipment installation data or templates would allow the Contractor to prepare rough-in and proceed with construction prior to taking delivery of Government-furnished equipment. This paragraph may be expanded to include scheduling delivery of installation data or templates as well as the equipment itself, if the data can be made available more quickly than the Government-furnished equipment and if advanced delivery would be helpful to the Government. Obtain listing of material from the Government.

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NOTE: Include this paragraph only when the contractor will be required to install Government-Furnished Materials and Equipment or provide utilities for same. Obtain information to identify the items from the Government. Select FAR 52-245-2 when the value of the Government-furnished property is greater than \$100,000. Select FAR 52.245-4 when the value of the Government-furnished property is \$100,000 or less.

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Pursuant to Contract Clause ["FAR 52.245-2, Government Property (Fixed Price Contracts)"] ["FAR 52-245-4, Government-Furnished Property (Short Form)"], the Government will furnish the following materials and equipment for installation by the Contractor:

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NOTE: Provide complete description and quantities for Government-furnished Contractor and installed material and equipment. Identify manufacturer, make, model and operating characteristics. Avoid generic descriptions especially for equipment requiring utilities such as water service, drains, natural gas, steam, or electricity. This information should be made available by the activity furnishing the material or equipment to be installed through the Government. When a utility is required to serve the Government-furnished item, ensure that the appropriate Section for the utility needed is included in the project specification.

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DESIGNATION NO.	DESCRIPTION	QUANTITY
[_____]	[_____]	[_____]



DESIGNATION NO.

DESCRIPTION

QUANTITY

1.8.1 Delivery Schedule

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NOTE: Choose the version of this paragraph which best satisfies the project conditions. The first alternative is best suited for projects requiring careful scheduling of Government-furnished equipment. The number of calendar days required for notification or that have elapsed before availability should be established after considering (1) a reasonable time between the Contract Award and the first need for Government-furnished equipment and (2) the lead time required for Government procurement. The storage rate should be set at the commercial rate in the area of storage.

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[Notify the Contracting Officer in writing at least [\_\_\_\_\_] calendar days in advance of the date on which the materials and equipment are required. Pick up materials and equipment no later than 30 calendar days after such date. When materials and equipment are not picked up by the 30th day, the Contractor will be charged for storage at the rate of [\_\_\_\_\_] per 100 [pounds] [cubic feet] 450 [kg] [cubic meters] per month or fraction thereof.]

[Materials and equipment will be available on or after [\_\_\_\_\_] calendar days after the award of contract.]

1.8.2 Delivery Location

The materials and equipment [are located at [\_\_\_\_\_] [are located within [\_\_\_\_\_] miles of the jobsite] [will be delivered to [\_\_\_\_\_] ].

] [1.9 GOVERNMENT-INSTALLED WORK

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NOTE: Include this paragraph if the Government is to install equipment or perform other work at the job site, excluding inspection and testing. Define the extent and type of Government work that may impact on the operations of the Contractor.

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[\_\_\_\_\_] .

] [1.10 Navy and Marine Corps (NMCI) Coordination Requirements

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NOTE: For Navy projects only. In addition to the EIA/TIA standards for telecommunications, the architectural, structural, mechanical, plumbing, electrical and fire protection designs must comply with the guidance in the latest version of UFC 3-580-10N.

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#### 1.10.1 NMCI Contractor Access

The NMCI Contractor must be allowed access to the facility towards the end of construction (finishes 90% complete, rough-in 100% complete, Inside Plant (ISP)/Outside Plant (OSP) infrastructure in place) to provide equipment in the telecommunications rooms and make final connections. The construction contractor will be required to coordinate his efforts with the NMCI contractor to facilitate joint use of building spaces during the final phases of construction. After the Contracting Officer has facilitated coordination meetings between the two contractors, the construction contractor must, within one week, incorporate the effort of additional contractor coordination into his construction schedule to demonstrate his plan for maintaining the contract duration.

#### ] PART 2 PRODUCTS

Not used.

#### PART 3 EXECUTION

Not used.

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NOTE: For all LANTNAVFACENGCOM projects, do not use  
this spec cover sheet. Obtain electronic  
specification cover sheet required for use with  
electronic signature program from the  
LANTNAVFACENGCOM specifications branch.  
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NOTE: For Design Build projects, do not use this  
specification cover sheet. Use cover sheet provided  
by the NAVFAC component for whom the specification  
is being created.  
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#### SPECIFICATION COVER SHEET

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NOTE: FOR SPECIFICATION COVER SHEET:

A. Technical specification cover sheet. Prepare a  
cover sheet for use as camera-ready master for the  
first page of the specification. Substitute  
appropriate information where the example has  
brackets with identifying numbers. Do not include  
the identifying numbers in the final sheet.  
Underlines indicate places for signatures, to appear  
on the final cover sheet. Fill in the following at  
the identifying numbers listed.

1. Appropriate Engineering Field Division or  
Engineering Field Activity.
2. Specification number.
3. UIC and Construction contract number.
4. Exact name of project.
5. Military location of the project.
6. Geographic location of the project.
7. Type names of each discipline engineer in blanks.
8. Signature of Principal of A/E firm or follow  
local procedures for in-house work.
9. For Government approval.

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-- End of Section --