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USACE / NAVFAC / AFCEA / NASA UFGS-01 75 00 (May 2012)  
Change 1 - 08/12  
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Preparing Activity: NASA Superseding  
NASA-01 75 00 (October 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS  
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SECTION 01 75 00

STARTING AND ADJUSTING  
05/12

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NOTE: This guide specification covers the requirements for system testing and acceptance.

Adhere to UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard when editing this guide specification or preparing new project specification sections. Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable items(s) or insert appropriate information.

Remove information and requirements not required in respective project, whether or not brackets are present.

Comments, suggestions and recommended changes for this guide specification are welcome and should be submitted as a Criteria Change Request (CCR).

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PART 1 GENERAL

1.1 SUMMARY

Requirements of this Section apply to, and are a component part of, each section of the specifications.

1.2 SUBMITTALS

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NOTE: Review Submittal Description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project.

The Guide Specification technical editors have designated those items that require Government approval, due to their complexity or criticality, with a "G." Generally, other submittal items can be reviewed by the Contractor's Quality Control System. Only add a "G" to an item, 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, Air Force, and NASA projects.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army 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.] [for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

#### SD-01 Preconstruction Submittals

Verification of Prior Experience[; G][; G, [\_\_\_\_]]

Documentation of Manufacturer's Prior Experience[; G][; G, [\_\_\_\_]]

Quality Control Plan[; G][; G, [\_\_\_\_]]

Manufacturer's Sample Warranty[; G][; G, [\_\_\_\_]]

Operation and Maintenance Data[; G][; G, [\_\_\_\_]]

Provide Evidence[; G][; G, [\_\_\_\_]]

#### SD-02 Shop Drawings

[ Drawings, Diagrams and Schedules[; G][; G, [\_\_\_\_]]

] [ Diagrams and Instructions[; G][; G, [\_\_\_\_]]

] [ Coordination Drawings[; G][; G, [\_\_\_\_]]

#### ] SD-03 Product Data

Catalog Cuts[; G][; G, [\_\_\_\_]]

Samples of Warranty Language[; G][; G, [\_\_\_\_]]

#### SD-05 Design Data

Design Calculations[; G][; G, [\_\_\_\_]]

SD-06 Test Reports

Factory Tests[; G][; G, [\_\_\_\_\_]]

Functional Field Test[; G][; G, [\_\_\_\_\_]]

Final Acceptance Test,[; G][; G, [\_\_\_\_\_]]

Test Procedures[; G][; G, [\_\_\_\_\_]]

SD-07 Certificates

[ Qualification of Manufacturer[; G][; G, [\_\_\_\_\_]]

] Qualification of [Applicator][Installer][; G][; G, [\_\_\_\_\_]]

SD-08 Manufacturer's Instructions

[ Manufacturer's Administrative Requirements[; G][; G, [\_\_\_\_\_]]

] [ Demonstration and Training Information[; G][; G, [\_\_\_\_\_]]

] [ Manufacturer's Procedural Requirements[; G][; G, [\_\_\_\_\_]]

] SD-09 Manufacturer's Field Reports

Documentation of the Testing and Verification Actions[; G][; G,  
[\_\_\_\_\_]]

SD-10 Operation and Maintenance Data

Operation and Maintenance Data[; G][; G, [\_\_\_\_\_]]

[ Safety and Security Data or Posters[; G][; G, [\_\_\_\_\_]]

] 1.2.1 Preconstruction and Pre-Testing Requirements

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NOTE: Edit the following testing information based on the requirements of the scope, equipment, and/or system. For NASA projects, refer to the 2004 version of the Reliability Centered Building and Equipment Acceptance Guide (RCBEA) to select the recommended Predictive Testing and Inspection (PT&I) procedures as stated in Article 2.1.

For other UFGS members, the acceptance testing criteria may be defined by their respective established guidelines, and verified prior to editing this section.

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Deliver equipment and services to meet the requirements and specifications of their respective contract. Ensure all equipment is free of latent manufacturing and installation defects. The Government reserves the option to elect performance of acceptance testing by internal personnel, or a designated third party. Regardless of who performs the acceptance testing, ensure the requirements of acceptance are.

Submit the following for review and approval prior to the commencement of work and any testing, whether such testing is on site or elsewhere:

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NOTE: Edit the following Submittals to fit the requirements of the project as selected in the Submittal Article above.  
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- a. [Verification of prior experience](#) and expertise with similar project scope
- b. [Documentation of manufacturer's prior experience](#) and expertise with similar project materials and systems
- c. [Quality control plan](#)
- d. [Manufacturer's sample warranty](#) and operation and maintenance data, with details regarding start-up procedures
- e. [Manufacturer's administrative requirements](#)
- f. [Manufacturer's procedural requirements](#)
- g. [Demonstration and training information](#)

Submit the following certifications:

- a. [Provide evidence](#) that products used within this specification are manufactured in the United States.
- b. [Qualification of manufacturer](#), including current licenses and insurance.
- c. [Qualification of \[applicator\] \[installer\]](#), including licenses and insurance.

#### 1.2.2 Shop Drawings and Diagrams

Submit the following shop drawings, record drawings, and diagrams as required to correctly execute the installation of the work:

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NOTE: Edit the following Submittals to fit the requirements of the project as selected in the Submittal Article above.  
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- [ a. [Drawings, diagrams and schedules](#) specifically prepared to illustrate [some portion of the work] [\_\_\_\_\_]
- ] b. [Diagrams and instructions](#) from a manufacturer or fabricator for use in producing the product and as aids to the Contractor for integrating the product or system into the project
- ] c. [Coordination drawings](#) prepared by or for the Contractor to show how multiple systems and interdisciplinary work will be coordinated

### 1.2.3 Product and Design Data

Submit all product data and any [design calculations](#), mix designs, analyses or other data pertaining to [a part of work] [\_\_\_\_\_] to ensure a complete functional installation; including, but not limited to:

- a. [Catalog cuts](#), illustrations, schedules, diagrams, performance charts, instructions and brochures illustrating size, physical appearance and other characteristics of materials, systems or equipment for some portion of the work
- b. [Samples of warranty language](#) when the contract requires [extended] [no dollar limit] product warranties
- c. [Operation and maintenance data](#) provided by the manufacturer to ensure the safe and efficient operation, maintenance and repair of the system or equipment provided
- d. [Safety and security data or posters](#) provided by the manufacturer to be posted in a conspicuous visible location for operational and maintenance personnel

### 1.2.4 Tests Required

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**NOTE: Edit the following testing information based on the requirements of the scope, equipment, and/or system. Clearly define the acceptance criteria testing parameters and the recommended Predictive Testing and Inspection (PT&I) procedures.**  
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Perform tests to verify proper functioning of fire protection, fire suppression, HVAC, compressed air, electrical switchgear, protective relaying, fluid and gas systems, pump/motor combinations, boiler systems, hydraulic and pneumatic control, condition/performance monitoring systems, energy control and monitoring systems, and other assemblies and components that need to be tested as an interrelated whole.

#### 1.2.4.1 [Factory Tests](#)

Submit certified copies of required tests performed at the factory to verify proper build. These test results will be used in the "Final Acceptance Test" section to verify no shipping damage and proper installation.

#### 1.2.4.2 [Functional Field Test](#)

Perform functional field tests test to verify that the system and components have been properly installed and are functioning properly. Perform test(s) in the presence of the Contracting Officer. Acceptance will be issued when system has performed per other sections and referenced industry standards.

Coordinate and submit [documentation of the testing and verification actions](#) taken by manufacturer's representative [at the job site] [, in the vicinity of the job site] [, or on a sample taken from the job site], on a portion of the work, [during] [after] installation, to confirm compliance with manufacturer's standards or instructions.

#### 1.2.4.3 Final Acceptance Test

Perform a formal test with full documentation using the approved recording form. Contracting Officer will witness this test and issue a written final acceptance. Provide final test data to the Contracting Officer with a cover letter clearly marked with the system name, date, and the words "Final Test Data - Forward to the Systems Engineer/Condition Monitoring Office/Predictive Testing Group for inclusion in the Maintenance Database."

#### 1.2.4.4 Test Procedures

Submit test procedure and recording forms that document the test steps for approval to the Contracting Officer 21 calendar days prior to the proposed test date. Ensure procedures clearly state step by step instruction to verify system parameters, components, and functions.

### PART 2 PRODUCTS

Not Used

### PART 3 EXECUTION

Not Used

-- End of Section --