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USACE / NAVFAC / AFCEC / NASA UFGS-01 33 23.33 (February 2010)  
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Preparing Activity: USACE

## UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated January 2015

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### SECTION 01 33 23.33

#### AVIATION FUEL SYSTEM SPECIFIC SUBMITTAL REQUIREMENTS 02/10

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NOTE: This guide specification covers the requirements for specific contract requirements for aircraft refueling systems constructed to the requirements of the DoD Type III/IV/V, and Cut'n Cover Hydrant Refueling System Standards

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

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NOTE: Use this Section in conjunction with UFGS 01 33 00 SUBMITTAL PROCEDURES. DoD Type III systems shall conform to Standard Design 078-24-28 PRESSURIZED HYDRANT FUELING SYSTEM (TYPE III). DoD Type IV/V systems shall conform to Standard Design 078-24-29 AIRCRAFT DIRECT FUELING SYSTEM (TYPE IV) DESIGN. Both Standard Designs are available at <https://apps.hnc.usace.army.mil/stdn/SearchResult.aspx?Search=6>

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#### 1.1 SUBMITTALS

Provide submittals as specified in each individual section and obtain approval as specified before procurement, fabrication, or delivery to the

job site. Partial submittals are not acceptable and will be returned without review. In addition to the definitions in Section 01 33 00 SUBMITTAL PROCEDURES, the following provisions apply:

#### 1.1.1.1 SD-02 Shop Drawings

Drawings shall be a minimum of A3 sheet[ANSI B][11 inches by 17 inches] in size, with a minimum scale of 1:1001/8 inch per foot, except as specified otherwise. Include floor plans, sectional views, wiring diagrams, and installation details of equipment; and equipment spaces identifying and indicating proposed location, layout and arrangement of items of equipment, control panels, accessories, piping, ductwork, and other items that must be shown to assure a coordinated installation. Wiring diagrams shall identify circuit terminals, and indicate the internal wiring for each item of equipment and the interconnection between each item of equipment. Drawings shall indicate adequate clearance for operation, maintenance, and replacement of operating equipment devices. If equipment is disapproved, drawings shall be revised to show acceptable equipment and be resubmitted. (Prior to the completion of the contract, on A1 sheet size[ANSI D][22 x 34 inch] reproducible drawings, for each system, wiring/control diagram and approved system layout drawing shall be provided to the Contracting Officer with the operation and maintenance manuals specified herein).

#### 1.1.1.2 SD-03 Product Data

Submittals for each manufactured item shall be manufacturer's descriptive literature of cataloged products, equipment drawings, diagrams, performance and characteristic curves, and catalog cuts. The submittals shall also include the manufacturer's name, trade name, catalog model or number, nameplate data, size, layout dimensions, capacity, project specification and paragraph reference, applicable Government, industry, and technical society publication references, years of satisfactory service, and other information necessary to establish contract compliance of each item the Contractor proposes to provide. Photographs of existing installations and data submitted in lieu of catalog data are not acceptable and will be returned without approval.

##### 1.1.2.1 Standards Compliance

When materials or equipment are required to conform to the standards of organizations such as the American National Standards Institute (ANSI), ASTM International (ASTM), National Electrical Manufacturers Association (NEMA), ASME International (ASME), American Gas Association (AGA), American Petroleum Institute (API), Air-Conditioning and Refrigeration Institute (ARI), and Underwriters Laboratories (UL) or equivalent, submit proof of such conformance to the Contracting Officer. Factory Mutual (FM) listing or CSA International (CSA) listing will be acceptable in lieu of any UL listing requirements. If an organization uses a label or listing to indicate compliance with a particular standard, the label or listing will be acceptable evidence, unless otherwise specified in the individual sections. In lieu of the label or listing, submit a certificate from an independent testing organization, which is competent to perform acceptable test and is approved by the Contracting Officer. The certificate shall state that the item has been tested in accordance with the specified organization's test methods and that the item conforms to the specified organization's standard. For materials and equipment whose compliance with organizational - standards or specifications is not regulated by an organization using its own listing or label as proof of compliance, submit a certificate of compliance from the manufacturer. The certificate shall

identify the manufacturer, the product, and the referenced standard and shall simply state that the manufacturer certifies that the product conforms to all requirements of the project specification and of the referenced standards listed.

#### 1.1.2.2 Manufacturer's Installation Instructions

Where installation procedures or any part thereof are required to be in accordance with the recommendations of the manufacturer of the material being installed, furnish printed copies of these recommendations prior to installation. Installation of the item will not be allowed to proceed until the recommendations are received. Failure to furnish these recommendations can be cause for rejection of the material.

### PART 2 PRODUCTS

#### 2.1 STANDARD PRODUCTS/SERVICE AVAILABILITY

##### 2.1.1 Materials and Equipment

Provide materials and equipment that are standard products of a manufacturer regularly engaged in the manufacturer of such products, which are of a similar material, design and workmanship. The standard products shall have been in satisfactory commercial or industrial use for two years prior to [bid opening][proposal]. The two-year use shall include applications of equipment and materials under similar circumstances and of similar size. Contracting Officer approval of materials with less than two years experience is allowed if acceptable by the design agency, [COE/NAVFAC,] and MAJCOM Fuels Engineer.

##### 2.1.1.1 Experience Required

The two-year experience requirement must be satisfactorily completed for a product which has been sold or is offered for sale on the commercial market through advertisements, manufacturer's catalogs, or brochures.

##### 2.1.1.2 Alternative Service Record

Products having less than a two-year field service record will be acceptable if a certified record of satisfactory field operation for not less than 6000 hours, exclusive of the manufacturer's factory or laboratory test, can be shown. Contracting Officer approval of materials with less than two years experience is allowed if acceptable by the design agency, [COE/NAVFAC,] and MAJCOM Fuels Engineer.

##### 2.1.2 Service Support

The equipment items shall be supported by service organizations. Submit a certified list of qualified permanent service organizations for support of the equipment which includes their addresses and qualifications. These service organizations shall be reasonably convenient to the equipment installation and able to render satisfactory service to the equipment on a regular and emergency basis during the warranty period of the contract.

##### 2.1.3 Manufacturer's Nameplate

Provide a nameplate, on each item of equipment, bearing the manufacturer's name, address, model number, and serial number securely permanently affixed in a conspicuous place; the nameplate of the distributing agent will not be

acceptable.

### PART 3 EXECUTION

Not Used

-- End of Section --