

SECTION 01731
GENERAL REQUIREMENTS

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SECTION 01731

GENERAL REQUIREMENTS

PART 1 GENERAL

1.1 SUBMITTALS

Provide submittals as specified in each individual section and obtain approval before procurement, fabrication, or delivery to the job site. Partial submittals are not acceptable and will be returned without review. Submittals shall include the manufacturer's name, trade name, catalog model or number, nameplate data, size, layout dimensions, capacity, project specification and paragraph reference, applicable Federal, Military, 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.

1.1.1 Shop Drawings

Drawings shall be a minimum of 14 inches by 20 inches in size, with a minimum scale of 1/8 inch per foot, except as specified otherwise. Drawings shall 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 29 x 41 mylar reproducible for each system wiring/control diagram and each approved system layout drawing shall be provided to the Contracting Officer with the operation and maintenance manuals specified herein).

1.1.2 Manufacturer's 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.

1.1.3 Standards Compliance

When materials or equipment must conform to the standards of organizations such as the American National Standards Institute (ANSI), American Society for Testing and Materials (ASTM), National Electrical Manufacturers Association (NEMA), American Society of Mechanical Engineers (ASME), American Gas Association (AGA), American Refrigeration Institute (ARI), and Underwriters Laboratories (UL), proof of such conformance shall be submitted to the Contracting Officer for approval. 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, the Contractor shall 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, a certificate of compliance from the manufacturer shall be submitted for approval. 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.

1.1.4 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, printed copies of these recommendations shall be furnished 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.

1.2 STANDARD PRODUCTS/SERVICE AVAILABILITY

1.2.1 Materials and Equipment

Materials and equipment shall be standard products of a manufacturer regularly engaged in the manufacture 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. The two-year use shall include applications of equipment and materials under similar circumstances and of similar size.

1.2.2 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.

1.2.3 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.

1.2.4 Service Support

The equipment items shall be supported by service organizations. The Contractor shall 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.

1.2.5 Manufacturer's Nameplate

Each item of equipment shall have a nameplate bearing the manufacturer's name, address, model number, and serial number securely affixed in a conspicuous place; the nameplate of the distributing agent will not be acceptable.

1.3 MANUFACTURER'S RECOMMENDATIONS

Where installation procedures or any part thereof are required to be in accordance with the recommendations of the manufacturer of the material being installed, printed copies of these recommendations shall be furnished 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.

1.4 GENERAL REQUIREMENTS FOR MATERIALS AND EQUIPMENT

a. Materials and equipment in contact with the fuel shall be noncorrosive (with some exceptions noted on drawings). This applies from bulk storage tanks to the skin of the aircraft. Noncorrosive materials are stainless steel, aluminum, interior coated carbon steel and fiberglass reinforced plastic pipe (FRP). Material of construction shall be as specified in each individual specification section.

b. Iron, uncoated carbon steel, copper, copper alloys, light metal alloys containing more than 4% copper, zinc, or zinc alloys, cadmium, lead or lead alloys shall not be used in components exposed to the fuel. Restriction of these metals is primarily to protect the thermal stability property of turbine fuels.

c. Flanges, pipe threads/threaded fittings and mechanical couplings are prohibited in buried piping.

1.4.1 Composition of Materials

a. Aluminum. Aluminum alloys shall be selected on the basis of structural requirements, resistance to corrosion, and compatibility with the fuel. Wrought alloys such as 6061, 6062, 6063 and cast alloys 356 and 514 are acceptable.

b. Stainless Steel. Chrome-nickel alloy steels are specified because of their ability to resist corrosion. Acceptable types are austenitic 300 series stainless steel.

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