

SECTION 01 75 00

STARTING AND ADJUSTING

10/06

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

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are 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

Submit **Verification of Prior Experience**; G and expertise with similar project scope

Submit **Documentation of Manufacturer's Prior Experience**; G and expertise with similar project materials and systems

Quality Control Plan; G
including testing and start-up schedule

Manufacturer's Sample Warranty and Operation and Maintenance Data; G

Provide Evidence that products used within this specification are manufactured in the United States.

SD-02 Shop Drawings

Diagrams and Instructions; G 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

Drawings; G prepared by or for the Contractor to show how multiple systems and interdisciplinary work will be coordinated

SD-03 Product Data

Catalog cuts; G, 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

Samples of warranty language when the contract requires product warranties

SD-06 Test Reports

Submit test reports in accordance with the paragraphs entitled, "Factory Tests; G", "Functional Field Test; G" and "Final Acceptance Test; G" of this section.

Submit test procedures and the recording forms according to paragraph entitled, "Test Procedures; G."

SD-07 Certificates

Qualification of Manufacturer; G

SD-08 Manufacturer's Instructions

Submit Manufacturer's Administrative Requirements; G

Demonstration and Training Information; G

Submit Manufacturer's Procedural Requirements; G for initial checkout, startup, and adjusting to ensure safe operation during acceptance testing and commissioning.

SD-09 Manufacturer's Field Reports

Documentation of the Testing and Verification Actions; G taken by manufacturer's representative at the job site on a portion of the work, after installation, to confirm compliance with manufacturer's standards or instructions

SD-10 Operation and Maintenance Data

Refer to Section 01 78 23 OPERATION AND MAINTENANCE DATA for detailed requirements and procedures.

Operation and Maintenance Data provided by the manufacturer to ensure the safe and efficient operation, maintenance and repair of the system or equipment provided.

1.2.1 Preconstruction and Pre-Testing Requirements

The Contractor is responsible to deliver equipment and services to meet the requirements and specifications of their respective contract. All equipment must be free of latent manufacturing and installation defects. Acceptance criteria must be clearly defined to establish required baselines for future maintenance and life-cycle evaluations. 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, the requirements of acceptance must be met by the Contractor.

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

- 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](#)

Contractor must 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.

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:

- a. [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
- b. [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

Contractor must submit all product data and any design calculations, mix designs, analyses or other data pertaining to the 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 product warranties

1.2.4 Tests Required

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, 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**

Contractor must 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, on a portion of the work, during 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. Procedure must 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 --