

MIL-T-50301(MJ)
6 May 1969

MILITARY SPECIFICATION

TECHNICAL DATA;

QUALITY CONTROL SYSTEM REQUIREMENTS FOR

1. SCOPE

1.1 Scope.- This specification establishes requirements for a contractor's technical data quality control system. These requirements pertain to the basic elements of a quality control system to be developed, established and maintained by the contractor for the purpose of insuring that technical data that is acquired by the Government conforms to contract requirements.

1.2 Applicability.- This specification, when referenced in the contract, shall apply to all procurements wherein the acquisition of data (see 6.3) is required to procure and support military systems, material, and services.

1.3 Objective.- The objective of this document is to provide the basis for assuring the adequacy, currency and timeliness of all technical data being acquired in accordance with the contract. The system requirements establish essential elements of a contractor quality control system to assure compliance with the applicable contract requirements for technical data. The system shall insure quality assurance throughout all areas of the contract.

1.4 Relation to contract requirements.- The requirements set forth in this specification shall be satisfied in addition to all detail requirements contained in the statement of work or in other parts of the contract. The contractor is responsible for compliance with all provisions of the contract and for furnishing technical data which meet all requirements of the contract. If any inconsistency exists between the contract schedule and this specification, the contract schedule and the general provisions shall apply.

1.5 Amendments and Revisions.- Whenever this specification is amended or revised subsequent to its contractually effective date, the contractor may comply with or authorize his subcontractors to comply with the amended or revised document provided no increase in price or fee is required. The contractor shall not be required to comply with the amended or revised document except as a change in contract. If the contractor elects to comply with the amended or revised document, he shall notify the Contracting Officer in writing of this election. When the contractor elects to comply with the provisions of an amendment or revision, he must comply with them in full.

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2. APPLICABLE DOCUMENTS

Not applicable.

3. REQUIREMENTS

3.1 Contractor responsibilities.- The contractor shall provide and maintain an effective and economical system for inspection, validation and quality control of technical data, planned and developed in conjunction with other contractor functions necessary to satisfy contract requirements. The requirements shall be met by the implementation of procedures which insure that only acceptable technical data are presented to the Government. The system shall provide for the early and prompt detection of actual or potential deficiencies, trends or conditions which could result in unsatisfactory quality, and for timely and effective corrective action. Objective evidence that the quality control system is effective shall be readily available to the Government Representative. The technical data quality control system shall be documented by the contractor and subject to review by the Government. The contractor's system is subject to the disapproval of the Government whenever the procedures do not accomplish their objectives.

3.2 Technical audit.- The system shall include procedures for auditing the effectiveness of the system. These procedures shall encompass all facets of data development including review of those factors responsible for the improvement and maintenance of the system in all organizations contributing services to development of data. Individual and independent audit procedures shall cover all major areas of activity such as, engineering design, engineering drawings, engineering support documents and lists, prototype components, pilot instrument assemblies, reports, quality assurance and reliability procedures, and test criteria developed in relation to the contract requirements. Vendor quality control procedure shall also be subject to independent audit.

3.3 Corrective action.- The system shall be so designed as to provide for prompt corrective action where identifiable and assignable conditions can be reflected in the technical data. Corrective action will include control of all suppliers and vendors and will provide for proper quality determination of such data generated in those areas and forwarded to the prime contractor. Corrective action will include analysis of the data which has been rejected in order to provide for specific corrective actions.

3.4 Validation of the technical data.- Where the manufacture of engineering prototypes or a pilot production quantity is required by the contract, the supplier will certify that all components were manufactured or procured on the basis of the technical data supplied under this system and contract, and that no other technical data, industry or company specification which do not form a part of the final technical documentation,

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were used to supplement the technical data during manufacture, purchase or inspection. This restriction shall not apply to use of administrative procedural specifications or standards normally used by the contractor in manufacture or purchase of components; nor is this restriction intended to apply to detail manufacturing data pertaining to "Specification Control" or "Source Control" drawings which have been approved for use.

3.5 Vendor services.- The system shall require that sub-contractor's control the development of technical data commensurate with the levels of control established within his own system necessary to assure the adequacy of technical data developed by sub-contractors. The contractor responsible for the control of such data shall include the establishment of a procedure for the selection of qualified vendors, the evaluation of the adequacy of procured data and effective provisions for early information feedback and correction of nonconforming data.

3.6 Government evaluation.- The contractor's Technical Data Quality Control System and technical data generated by the system shall be subject to evaluation and verification by the Government to determine the effectiveness in supporting the quality requirements established in the contract and as prescribed herein.

4. QUALITY ASSURANCE PROVISIONS

4.1 Quality assurance provisions.- The requirements of paragraphs 3.2 and 3.4 of this specification shall be the basis for establishment by the contractor of quality assurance criteria relative to his quality control system. The auditing and validation procedures of the contractor shall independently assess the adequacy of the system.

5. PREPARATION FOR DELIVERY

5.1 Preparation for Delivery.- This section is not applicable to this specification.

6. NOTES

6.1 Intended use.- This specification is intended when referenced in the contract to assure the acquisition of quality technical data associated with military systems, supplies and services.

6.2 Ordering data.- Procurement documents should specify the title, number, and data of this specification.

6.3 Definition of Technical Data.- Technical data are recorded information used to define a design and to produce, support, maintain or operate items of defense materiel. These data may be recorded as graphic or

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pictorial delineations in media such as drawings or photographs; text in specifications or related performance or design type documents; in machine forms such as punched cards, magnetic tape, computer memory printouts; or may be retained in computer memory. Examples of recorded information include engineering drawings and associated lists, specifications, standards, process sheets, manuals, technical reports, catalog item identifications, and related information.

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