

PURCHASE ORDER ATTACHMENT Q-202

**SOFTWARE QUALITY SUBCONTRACTOR REQUIREMENTS
TASK DESCRIPTIONS - PURCHASE CATEGORY "B"**

- 1 SOFTWARE QUALITY PROGRAM. This attachment establishes the software quality requirements to be applied during the acquisition, development and/or support of software purchase items. The attached Table, Task Description and Tailoring Notes page(s) identify the software quality requirements to be applied for those Software Purchase Item(s) and Categories identified below.

PURCHASE ITEM DESCRIPTION	Category
1. _____	
2. _____	
3. _____	

2. TAILORING REQUIREMENTS. An "N" placed in the Purchase Category column indicates there is a note clarifying or modifying the task description in the Table (Attached) for the purchase item(s) associated with this order. Tailoring Notes are tied to the task description by indicating the Purchase Category and associated Task Number.
3. TAILORING. Should the Seller determine that further tailoring of the specified software requirements is needed, a written request for such changes must be submitted to the Buyer.
4. DATA SUBMITTAL. Seller shall submit required quality documentation, if any, as specified in the Buyer's purchase order and as further clarified in Task Note 18 herein.
5. INTENDED USE. It is intended that the Seller use, and augment if necessary, existing internal quality systems to satisfy the requirements of this attachment. This is permissible as long as the applicable policies and procedures do not conflict with any provision of Buyer's order.
6. CLARIFICATION OF TERMS. For purposes of this procurement, the following terms are used in the text:
Seller Buyer Seller's Sub-Tier Supplier
7. ACCEPTANCE. Acceptance of this purchase order constitutes acceptance of the quality requirements stated herein.

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PURCHASE ORDER ATTACHMENT Q-202 (continued)

TABLE

TASK	PO TASK REQUIREMENTS (Task Descriptions Attached)	PURCHASE CATEGORIES		
		A	B	C
1.	Policy	x	x	
1.1	Software Quality System Self Assessment	x		
2.	Independence	x		
3.	Software Quality Program Plan	x	x	
4.	Corrective Action	x		
5.	Access by Contracting Agency	x	x	
6.	Program Plans and Procedures	x		
7.	Software configuration Management	x	x	
8.	Evaluation of Non-deliverable	x		
9.	Date Media Storage, handling, packaging & shipping	x	x	
10	Formal Reviews and FCA/PCA's	x		
11.	Product Certification	x	x	x
12.	Other Software Processes	x		
13.	Acceptance Testing	x	x	
14.	Non developmental Software	x		
15.	Supplier Controls	x		
16.	Management Reporting	x		
17.	Evaluation Reports	x		
18.	DATE SUBMITTAL REQUIREMENTS	x	x	

Category A: Developmental software is that being developed under a contract or project by a seller (contractors or sub tier contractor) per requirements and/or specifications provided by Boeing Satellite Systems or its customer. The software may be deliverable or non-deliverable to a Boeing Satellite Systems customer.

Category B A sellers (supplier or sub-tier supplier) software that is being modified per specifications and/or requirements provided by Boeing Satellite Systems or a Boeing Satellite Systems Customer. The changes typically would be functional changes. The software may be deliverable or non-deliverable to a Boeing Satellite Systems customer.

Category C Commercial Off the Shelf - Software products sold or traded to the general public. Software which is provided by the contractor, Government, a third party or is Boeing-off-the-shelf reusable software. Software quality requirements are not applicable to the supplier or distributor but rather to the control and testing of the software upon receipt by Boeing Satellite Systems.

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NOTES:

Tailoring of Task Descriptions by Purchase Category "A" or "B" to be indicated.

Purchase Item(s) Tailoring Notes:

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The following descriptions define the task identified in the table of purchase order attachment Q 202.

1 Policy: The seller shall define and document its policy and objectives for, and commitment to, quality. The seller shall ensure that this policy is understood, implemented and maintained at all levels in the organization.

3. Software Quality Program Plan: The seller's software quality activities shall be documented in a controlled plan and implementing instructions, when required. The plan shall be the result of the review of the subcontract, and shall address verification of each quality requirement found in the subcontract. The plan shall also address special tools, facilities, or methodologies needed to support or implement the software quality program. The plan shall be mutually agreed upon.

5. Access for Contracting Agency Review: The software quality program is subject to review by the buyer and the buyer's contracting agency when applicable. These reviews may be in the form of a joint review where results are agreed to and documented.

- a. The seller shall provide right of access to all premises where any part of the subcontract is being performed this includes sellers and sellers sub-tier suppliers' facilities.
- b. The seller shall make available the software quality records and provide any necessary support for verification when requested.

7. Software Configuration Management: The seller shall assure the software configuration management process, including the developmental library and its operation complies with the contract and adheres to software plans. This includes but is not limited to:

- a. Classification, as required by subcontract, of problems and analysis to identify trends in the problems reported.
- b. Provide a mechanism for tracking the status of problems.
- c. Assurance that only authorized modifications are made.
- d. Changes to documents shall be reviewed and approved by the authorized functions or organizations.
- e. Accurate identification and documentation of software versions including a description of included changes.
- f. Maintenance of records for the life of the contract.
- g. The most recent authorized versions of materials under configuration control are clearly identified and are the ones routinely available from the library.
- h. Previous versions of materials under configuration control are clearly identified and controlled to provide an audit trail that permits reconstruction of all changes made to each configuration item.
- i. Controls exercised on the internal distribution of deliverable media and documentation.

9. Data Media Storage. Handling: Packaging and Shipping. The seller shall assure compliance with the subcontract and adherence to the software plans and procedures to protect the integrity of the software products to be delivered to the point of destination to prevent damage and deterioration of product.

11. Product Certification: The seller shall define and agree to method of final certification of all deliverable software and associated documentation to assure that all subcontract requirements have been met, that internal coordination has been conducted according to software plans, and that documentation reflects current status of the product. Product inspection status shall be identified. The seller assures that the data rights provisions are consistent with the subcontract NOTE: For COTS the seller shall maintain documented, objective evidence that the software and associated documentation meet the purchase order quality requirements.

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13. Software Acceptance Testing: The seller shall identify all software quality activities related to software acceptance testing. These activities shall include:

- a. review of test document (plans, specification, procedures, reports, etc.) for adequacy, feasibility, testability, compliance with contractual requirements, and configuration that only authorized changes are incorporated.
- b. verification that tests are conducted according to approved test plans and procedures and that the software is the correct version.
- c. the witness of tests and/or certification that test results are actual and valid.
- d. verify the maintenance of test related documentation that allows test repeatability.
- e. verifying that any software, test data test files and hardware used as a tool for software testing is identified.
- f. verifying that the host development environment has been specified.
- g. verifying that the test procedures include provisions for all approved software functional requirements.

18. Data Submittal: Seller shall submit documentation requirements specified in the purchase order or attached notes, if any.

END OF DOCUMENT

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